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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

JEREMIAH REVITCH, on Behalf of Himself
and all Others Similarly Situated,

Plaintiff,

v.

CITIBANK, N.A.,

Defendant.

Case No. 3:17-cv-06907-WHA

**DECLARATION OF JOEL D. SMITH IN
SUPPORT OF PLAINTIFF'S REPLY IN
SUPPORT OF MOTION FOR CLASS
CERTIFICATION**

Date: February 14, 2019
Time: 8 a.m.
Court: Courtroom 12, 19th Floor

1 I, Joel D. Smith, declare as follows:

2 1. I am an attorney at law licensed to practice in the State of California. I am a partner
3 at Bursor & Fisher, P.A., counsel of record for Plaintiff. I have personal knowledge of the facts set
4 forth in this declaration, and, if called as a witness, could and would competently testify thereto
5 under oath. I make this declaration in support of Plaintiff's Reply in Support of Motion for Class
6 Certification. I have personal knowledge of the facts set forth herein, and if called upon to do so, could
7 and would testify truthfully and competently with respect thereto.

8 2. Attached hereto as **Exhibit 1** is a true and correct copy of excerpts of the deposition
9 of Citibank's expert witness Margaret Daley, taken in this matter on January 24, 2019. The document
10 is filed under seal.

11 3. Attached hereto as **Exhibit 2** is a true and correct copy of excerpts of the deposition
12 of Plaintiff's expert witness Randall Snyder, taken in this matter on December 23, 2018. The
13 document is filed under seal

14 4. Attached hereto as **Exhibit 3** is a true and correct copy of excerpts of the deposition
15 of Plaintiff's expert witness Colin B. Weir, taken in this matter on December 28, 2018. The document
16 is filed under seal.

17 5. Attached hereto as **Exhibit 4** is a true and correct copy of the February 1, 2018 Reply
18 Declaration of Randall A. Snyder. Portions of the document is filed under seal.

19 6. Attached hereto as **Exhibit 5** is a true and correct copy of the February 1, 2018 Reply
20 Declaration of Colin B. Weir. Portions of the document is filed under seal.

21 7. Attached hereto as **Exhibit 6** is a true and correct of exhibit 8 attached to the Expert
22 Report of Margaret Daley (Doc. No. 110-8).

23 8. Attached hereto as **Exhibit 7** is a true and correct copy of exhibit 9 attached to the
24 Expert Report of Margaret Daley (Doc. No. 110-8).

25 9. Attached hereto as **Exhibit 8** is a true and correct copy of exhibit 11 attached to the
26 Expert Report of Margaret Daley (Doc. No. 110-8).

1 I declare under penalty of perjury that the foregoing is true and correct. Executed on
2 January 25, 2019, in Walnut Creek, California,

3 /s/ Joel D. Smith

4 Joel D. Smith
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EXHIBIT 1

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

JEREMIAH REVITCH, on)
Behalf of Himself and All)
Others Similarly Situated,)
)
) Case No.
Plaintiffs,) 3:17-cv-06907-WHA
)
vs.)
)
CITIBANK, N.A.,)
)
Defendant.)

The videotaped deposition of MARGARET
DALEY, called for examination, taken pursuant to
the Federal Rules of Civil Procedure of the United
States District Courts pertaining to the taking of
depositions, taken before JANET L. ROBBINS,
CSR No. 84-2207, Certified Shorthand Reporter of
the State of Illinois, at One North Franklin,
Suite 3000, Chicago, Illinois, on
January 24, 2019, at 8:58 a.m.

***THIS DEPOSITION CONTAINS CONFIDENTIAL
INFORMATION PURSUANT TO THE PROTECTIVE ORDER***

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1 Q. Okay. Do you understand or agree that 09:10:23
2 providing inaccurate information to the Court is 09:10:32
3 not helpful? 09:10:35
4 A. Yes. 09:10:36
5 Q. Is there anything in your report, the 09:10:37
6 exhibits to that report, or your opinions that you 09:10:40
7 believe to be inaccurate? 09:10:42
8 A. No. 09:10:44
9 (Daley Exhibit 58 was marked for 09:11:18
10 identification.) 09:11:29
11 BY MR. SMITH: 09:11:29
12 Q. Ms. Daley, you should have a document 09:11:36
13 in front of you that has been marked Exhibit 58. 09:11:38
14 Do you see that document? 09:11:42
15 A. Yes. 09:11:43
16 Q. What is the document that's been marked 09:11:44
17 as Exhibit 58? 09:11:46
18 A. It's an article that I wrote. 09:11:47
19 Q. And was it your intention to provide 09:11:50
20 truthful information in the article that's been 09:11:59
21 marked as Exhibit 58? 09:12:01
22 A. Yes. 09:12:02
23 Q. I want to direct your attention to the 09:12:02
24 bottom of Page 2 of Exhibit 58. 09:12:13

1 Is it a true statement that cellular 09:12:19
2 telephone numbers turn over at a substantial rate? 09:12:25
3 A. Yes. 09:12:30
4 Q. Is it a true statement that 09:12:31
5 approximately 1,000 numbers are reassigned by 09:12:35
6 wireless carriers every day? 09:12:39
7 A. I think you misspoke. 09:12:51
8 THE WITNESS: Can you reread his -- 09:12:54
9 BY MR. SMITH:
10 Q. Let's -- I'm looking at the bottom 09:12:55
11 paragraph at the bottom of Page 2 of Exhibit 58. 09:12:59
12 You have a sentence there that starts "The FCC," 09:13:05
13 and then there's a hyperlink, "in 2017." 09:13:08
14 Do you see that? 09:13:11
15 A. Yes, but I think you said 1,000 numbers 09:13:11
16 and I believe it's 100,000. 09:13:13
17 Q. Thank you -- thank you for that. 09:13:15
18 100,000 numbers are reassigned by 09:13:17
19 wireless carriers every day; is that a true 09:13:20
20 statement? 09:13:23
21 A. I believe it is, if the FCC -- if you 09:13:23
22 have the FCC report. 09:13:24
23 Q. Okay. 09:13:26
24 A. I mean, the true statement is that I 09:13:26

1 believe 35 million numbers are disconnected and 09:13:29
2 aged. 09:13:36
3 Q. Okay. 09:13:36
4 A. I mean, this is information that I 09:13:36
5 received -- that I looked -- that I sourced from 09:13:37
6 somewhere else. 09:13:41
7 Q. All right. Further down that paragraph 09:13:41
8 you say, "This churn rate is even higher for 09:13:45
9 cellular number owners experiencing financial 09:13:48
10 distress." 09:13:52
11 Do you see that? 09:13:53
12 A. Yes. 09:13:53
13 Q. Did I read that one correctly? 09:13:53
14 A. Uh-huh. 09:13:54
15 Q. Okay. And are you aware of any 09:13:55
16 information that suggests that sentence is 09:13:56
17 incorrect? 09:13:59
18 A. No. 09:14:00
19 Q. Have you looked at the call logs in 09:14:00
20 this case? 09:14:05
21 A. Yes. 09:14:07
22 Q. Okay. Do you have any understanding 09:14:08
23 about the volume of calls made in the last four 09:14:11
24 years? 09:14:14

1 A. Yes. 09:14:14

2 Q. What is your understanding? 09:14:14

3 A. It's quite substantial. It's a large 09:14:16

4 bank. 09:14:22

5 Q. Okay. If -- 09:14:23

6 THE COURT REPORTER: It's a large?

7 THE WITNESS: It's a large bank.

8 THE COURT REPORTER: Thanks.

9 BY MR. SMITH:

10 Q. If Mr. Weir were to testify at trial 09:14:24

11 that the call log showed upward of 70 million call 09:14:26

12 detail records, would you have a basis to dispute 09:14:34

13 that? 09:14:36

14 THE WITNESS: Can read that over? 09:14:37

15 MR. SMITH: Do you mind reading the 09:14:38

16 question back. 09:14:39

17 (The reporter read the record as 09:14:49

18 requested.)

19 THE WITNESS: I believe that's not as 09:14:51

20 many. I believe that's wrong. 09:14:54

21 BY MR. SMITH: 09:14:55

22 Q. What is the basis for that belief? 09:14:55

23 A. That I -- we -- we took the entire 09:14:57

24 amount of the calls and -- that was produced and 09:15:00

1 it was more than 70 million. 09:15:04

2 Q. Oh, you think the number is higher than 09:15:06

3 70 million? 09:15:08

4 A. Yes, I do. 09:15:09

5 Q. Okay. Do you have any sense of how 09:15:09

6 much higher? 09:15:12

7 A. I just know that it's substantially 09:15:12

8 more than 70 million. 09:15:14

9 Q. In the billions? 09:15:17

10 A. Potentially. 09:15:18

11 Q. Okay. 09:15:19

12 A. I don't know where Mr. Weir would get 09:15:22

13 70 million. But we may be talking about different 09:15:24

14 data sources, so it's important to understand what 09:15:27

15 data source he's looking at to get to the 09:15:31

16 70 million. 09:15:33

17 Q. I see. Okay. 09:15:34

18 A. I don't think that he ever uploaded the 09:15:35

19 entire database, but I may be wrong about that. 09:15:37

20 Q. Well, let's just assume hypothetically 09:15:43

21 that the call is 70 million or a billion, 09:15:47

22 whichever the case may be. 09:15:51

23 Is it your opinion that Citibank called 09:15:53

24 or reached the intended recipient of the call 09:15:56

1 100 percent of the time? 09:15:59

2 A. I have no way of knowing that -- 09:16:01

3 Q. Okay.

4 A. -- except Mr. Revitch apparently got a 09:16:03

5 wrong number call. 09:16:08

6 Q. Are you offering the opinion that 09:16:09

7 Citibank never makes wrong number calls? 09:16:11

8 A. No. 09:16:14

9 Q. What's your best estimate of the number 09:16:14

10 of calls placed by Citibank that reached the 09:16:18

11 intended recipient? 09:16:21

12 A. I have none. 09:16:24

13 Q. Okay. You wouldn't know if it's more 09:16:26

14 than 50 or less than 50? 09:16:29

15 A. I have -- that was outside the scope of 09:16:30

16 my work. 09:16:32

17 Q. Okay. And you wouldn't know if it's 09:16:32

18 more than 10 percent or less than 10 percent? 09:16:33

19 A. Again, outside the scope of my work. 09:16:35

20 But my work would tend to show you that it's 09:16:36

21 impossible to make that determination without 09:16:38

22 doing an account-by-account review. 09:16:41

23 Q. Okay. Do you have any reason to 09:16:44

24 question or doubt that Citibank made more than 09:16:44

1 40 wrong number calls in the course of four years? 09:16:48

2 A. I don't have an opinion on that. 09:16:51

3 Q. Okay. 09:16:54

4 A. I didn't -- I can state that none of 09:16:59

5 the records that were produced and reviewed by -- 09:17:03

6 by Mr. Weir as his class, there aren't 40 in that 09:17:10

7 proposed class. And he did a pull of 20,000. So 09:17:14

8 there's been -- there has not been produced in 09:17:18

9 this record evidence of 40 wrong number calls. 09:17:22

10 Q. Okay. And what is the basis for that 09:17:26

11 statement? 09:17:31

12 A. All of the work that I did that's 09:17:32

13 represented in my report. 09:17:33

14 Q. Okay. Are you offering any opinion 09:17:34

15 about how many people might have received wrong 09:17:36

16 number calls? 09:17:39

17 A. No. 09:17:40

18 Q. Are you offering any opinion that 09:17:40

19 people can consent to receive wrong number calls? 09:17:48

20 A. Can you repeat that? 09:17:51

21 Q. Sure. Is it your opinion that it is 09:17:54

22 possible for people to consent to receive wrong 09:17:57

23 number calls intended for someone else? 09:18:01

24 A. Well, I don't know what -- what your 09:18:03

1 definition of a wrong number call is at that 09:18:04
2 point. 09:18:08
3 Q. Intended for someone else. 09:18:08
4 A. So your question is: Is it -- is it 09:18:11
5 possible for me to consent to receive a call that 09:18:12
6 was intended for someone other than myself? 09:18:17
7 Q. Are you offering an opinion on that 09:18:20
8 subject? 09:18:22
9 A. Am I offering an opinion on that? 09:18:22
10 I think "consent" is a legal opinion 09:18:25
11 and something that -- you know, whether or not 09:18:27
12 someone consents is -- is a -- that's a 09:18:30
13 definition, it's a legal issue that would be up to 09:18:32
14 the Judge. 09:18:38
15 But from a personal perspective, I 09:18:38
16 certainly can consent to receive calls from my 09:18:40
17 husband. If we're both on a -- on an -- accounts 09:18:44
18 or I'm identified as a contact and I know that 09:18:48
19 I've been identified as a contact and I pick up 09:18:53
20 his phone instead of somebody else, then sure. 09:18:56
21 Q. Okay. And is that an opinion that 09:18:58
22 Citibank has asked you to put forward in this 09:19:00
23 case? 09:19:04
24 A. Well, there are -- there's certainly 09:19:04

1 instances of consent or apparent consent that are 09:19:08
2 addressed in my report on an anecdotal basis, 09:19:15
3 which has to do with the review that I did of the 09:19:19
4 176 alleged class members that were identified by 09:19:21
5 Mr. Weir. 09:19:25

6 And so to the extent that I reviewed 09:19:26
7 the account records and was able to identify 09:19:32
8 language within the account records or activity 09:19:35
9 within the account records or aspects of the 09:19:38
10 account records which would indicate the consent 09:19:44
11 was potentially there, the answer is yes. 09:19:47
12 However, I certainly have not been retained to say 09:19:50
13 that any individual consented in any particular 09:19:53
14 situation for any particular call. 09:19:58

15 Q. Okay. Are you offering an opinion that 09:20:01
16 Mr. Revitch consented to receive calls in this 09:20:08
17 case? 09:20:12

18 A. No. 09:20:12

19 Q. Are you offering any opinions regarding 09:20:13
20 Citibank's arbitration agreement? 09:20:18

21 A. No. 09:20:21

22 Q. Are you offering any opinions regarding 09:20:21
23 the subject of whether or not Citibank knowingly 09:20:26
24 or willingly violated the TCPA? 09:20:30

1	A.	No.	09:20:33
2	Q.	Are you offering any opinions on the	09:20:34
3		subject of calculating the amount of statutory	09:20:40
4		damages at issue in this case?	09:20:43
5	A.	Well, I'm a data analytics expert, and	09:20:46
6		I have certainly been retained to review the data.	09:20:55
7		And it's quite possible that at some point they	09:20:59
8		may come back to me and say "do this calculation."	09:21:03
9		My report certainly does not have	09:21:08
10		anything to that effect because Mr. Weir was	09:21:11
11		unable to identify, in my opinion, any class	09:21:14
12		members, which would mean that, at least based on	09:21:18
13		the sample that he did, there are no damages,	09:21:23
14		there are none. But I wasn't asked to give a	09:21:26
15		damages calculation, nor would I.	09:21:29
16	Q.	Are you offering any opinions about how	09:21:33
17		Citibank's Aspect dialing system works?	09:21:38
18	A.	No. Mr. Kalat is providing that.	09:21:43
19	Q.	Do you view yourself as an expert in	09:21:45
20		the area of probability?	09:21:56
21	A.	You mean from a statistical standpoint?	09:21:59
22	Q.	(Nodding head.)	
23	A.	No. I'm a -- I'm familiar and fluent	09:22:03
24		with statistics, and I'm very familiar with the	09:22:06

1 probability statistics or probability of ownership 09:22:09
2 scoring that is produced by various data vendors 09:22:15
3 relating to the data that they produce. I've used 09:22:21
4 that. I don't calculate it, for sure, nor do I 09:22:23
5 know how they calculate it because they don't 09:22:28
6 produce it. 09:22:32
7 And I certainly use statistics in my -- 09:22:32
8 in my work, but I -- I am not a statistician and I 09:22:35
9 don't claim to be an expert in statistics. 09:22:39
10 Q. Okay. You've never taught any courses 09:22:42
11 in statistics? 09:22:45
12 A. No. 09:22:46
13 Q. You've never wrote any textbooks on the 09:22:46
14 subject? 09:22:50
15 A. No. 09:22:50
16 Q. Okay. When you speak about 09:22:50
17 probabilities, do you prefer to refer to them as 09:22:51
18 percentages or decimals? 09:22:57
19 For instance, if we're talking about a 09:23:00
20 probability of 50/50, would you -- do you prefer 09:23:02
21 to say 50 percent or .5? 09:23:05
22 A. I don't have a preference. 09:23:08
23 Q. Okay. Do you have any understanding 09:23:09
24 about whether or not the probability of something 09:23:12

1	can exceed 100 percent?	09:23:16
2	A. I don't have an opinion on that.	09:23:18
3	Q. Okay. All right.	09:23:19
4	A. And I'm not sure I understand the	09:23:26
5	question, honestly.	09:23:28
6	Q. Okay. All right. Well, just by way of	09:23:28
7	example, is it possible that the probability of	09:23:30
8	raining on a given day can be 125 percent?	09:23:36
9	A. I -- I don't know.	09:23:43
10	Q. Okay.	09:23:47
11	A. I'm not a weatherman.	09:23:48
12	Q. Well, let's stick with the weather a	09:23:50
13	little bit.	09:24:06
14	On any given day it can be sunny,	09:24:07
15	rainy, foggy, snowy, whatever, right? You have a	09:24:10
16	number of possibilities that you can choose from,	09:24:12
17	right?	09:24:15
18	A. Yes.	09:24:15
19	Q. Okay. Assuming that you've got all the	09:24:16
20	possible outcomes in terms of weather, can the	09:24:25
21	probabilities be more than 100 of any particular	09:24:28
22	outcome?	09:24:35
23	A. Of any particular outcome?	09:24:35
24	Q. Uh-huh.	09:24:38

1 A. So you're talking about multiple inputs 09:24:39
2 coming in and scoring each one by their unique 09:24:42
3 probability -- 09:24:46
4 Q. Yes. 09:24:47
5 A. -- and then scoring them against each 09:24:47
6 other? 09:24:48
7 Q. Yes. 09:24:48
8 A. So yes. The answer's yes. 09:24:49
9 Q. It can be more than 100? 09:24:50
10 A. Yes. 09:24:53
11 Q. Okay. All right. And why do you say 09:24:53
12 that? 09:24:54
13 A. Well, my understanding would be that 09:24:54
14 when you're scoring them against each other -- I 09:25:00
15 mean, if you've got -- this is not my area. I'm 09:25:03
16 not pretending to be -- 09:25:08
17 Q. Okay. 09:25:10
18 A. -- a probability expert or a 09:25:11
19 statistical expert. 09:25:12
20 But when you've got multiple inputs, 09:25:14
21 you're essentially working on an algorithm. 09:25:18
22 Q. Okay. Anything more to say about that 09:25:23
23 subject? 09:25:27
24 A. Not really. 09:25:27

1 Q. All right. Are you familiar with 09:25:27
2 software called Stata -- 09:25:29
3 A. Yes. 09:25:31
4 Q. -- or Stata? 09:25:31
5 A. Uh-huh. 09:25:32
6 Q. Have you ever used Stata prior to this 09:25:33
7 litigation? 09:25:36
8 A. No. 09:25:36
9 Q. And you don't have a license to use it 09:25:37
10 then, correct? 09:25:41
11 A. My firm does. 09:25:41
12 Q. Okay. Do you believe that the Stata 09:25:42
13 software is reliable? 09:25:49
14 A. I don't have an opinion on it one way 09:25:51
15 or the other. 09:25:53
16 Q. Have you ever heard anyone in your firm 09:25:53
17 say they think that the firm should stop using 09:25:56
18 Stata because it's unreliable? 09:25:59
19 A. That wouldn't affect whether or not I 09:26:01
20 had an opinion upon whether it was reliable. 09:26:05
21 In order for me to personally have an 09:26:08
22 on its reliability, I would have to personally use 09:26:11
23 it and observe it and to make determinations on 09:26:13
24 how it works. 09:26:16

1 My firm uses Stata because other people 09:26:17
2 within my firm want to use it. And, therefore, 09:26:19
3 they have an opinion on its reliability or its use 09:26:22
4 for a particular purpose. 09:26:26

5 And we also have licenses for many 09:26:28
6 different types of programs, data programs, 09:26:31
7 because our clients use them. And, therefore, for 09:26:35
8 us to work on our client's data in an efficient 09:26:39
9 way, we use the same software that they do. 09:26:41

10 I have no opinion on it. I'm not an 09:26:44
11 expert in Stata. And I did not personally do the 09:26:46
12 work on Stata in this matter. I used somebody in 09:26:48
13 our firm to do that at my supervision because they 09:26:53
14 were fluent in it. 09:26:57

15 Q. Okay. Have any of your clients who use 09:26:58
16 Stata told you they believe it's unreliable? 09:27:01

17 A. I don't have any clients that use it. 09:27:05

18 Q. Okay. Has anyone at your firm told you 09:27:06
19 they stopped using Stata because they decided it 09:27:10
20 was unreliable? 09:27:13

21 A. No. 09:27:14

22 Q. After Mr. Weir applied the methodology 09:27:14
23 that's described in his report, he came up with a 09:27:31
24 list of 176 telephone numbers. 09:27:36

1 thoughts? 10:14:14

2 A. That it's exceptionally hard to try and 10:14:14

3 identify wrong number call recipients for many of 10:14:18

4 the reasons that are outlined in my report here. 10:14:26

5 A lot of it is driven by the business records that 10:14:30

6 are maintained by the individual companies. 10:14:33

7 And those are just extremely complex, 10:14:39

8 and each one is very different for each of the 10:14:42

9 cases that I've worked on. Even though they're 10:14:44

10 similar financial institutions and that they're 10:14:47

11 collecting on similar types of debt, they have 10:14:51

12 incredibly different business systems. 10:14:55

13 Q. And have you ever thought about ways to 10:14:57

14 address those difficulties if you wanted to 10:14:59

15 certify a wrong number class? 10:15:01

16 A. No, I haven't been asked. 10:15:02

17 Q. Okay. 10:15:05

18 A. And I would add that the current data 10:15:10

19 that exists to try and identi- -- to associate 10:15:12

20 people with telephone numbers, that's really the 10:15:16

21 biggest problem, is identifying people with the 10:15:20

22 telephone numbers. It's very unreliable. 10:15:25

23 Q. When was the last time you researched 10:15:26

24 or looked into the current state of technology or 10:15:29

1 services that are available as of 2018, let's say, 10:15:32
2 that might facilitate identifying people, 10:15:36
3 associating people with phone numbers? 10:15:42
4 A. Well, we do it all -- we do it as a 10:15:44
5 general course of business. We're looking at the 10:15:45
6 TLO and LexisNexis data as well as other types of 10:15:47
7 data vendors that sell cellular lookup services. 10:15:52
8 I issued a number of reports last year and we 10:15:57
9 tested the data. 10:15:59
10 Q. Okay. A number of reports in 10:16:03
11 connection with litigation? 10:16:04
12 A. Uh-huh. 10:16:05
13 Q. I see. Okay. 10:16:06
14 Have you ever testified as a witness in 10:16:10
15 trial before? 10:16:12
16 A. Preliminary injunction. 10:16:13
17 Q. Okay. And was that as a fact witness 10:16:16
18 or as an expert witness? 10:16:20
19 A. Expert. 10:16:21
20 Q. Have you ever testified as a nonexpert 10:16:22
21 in trial? 10:16:28
22 A. I've testified at hearings. I don't 10:16:29
23 know what "trial" means, you know, if you're 10:16:42
24 talking about civil litigation going to trial. 10:16:43

1 involved a putative class of people who received 10:21:23
2 wrong number calls? 10:21:26
3 A. That's correct. 10:21:27
4 Q. And did the plaintiffs' expert in 10:21:29
5 Johnson v. Navient propose using LexisNexis and 10:21:32
6 TransUnion to find class members? 10:21:37
7 A. Yes. 10:21:38
8 Q. And in the Johnson v. Navient case, did 10:21:39
9 you offer the opinion that the methodology used by 10:21:42
10 the plaintiffs' expert in that case did not find 10:21:45
11 the named plaintiff? 10:21:48
12 A. That's correct. 10:21:50
13 Q. And you offer a similar opinion in this 10:21:53
14 case, correct? 10:21:55
15 A. Yes, but for different reasons. 10:21:56
16 Q. In the Johnson v. Navient case, did you 10:21:57
17 opine that the cellular reverse lookup services 10:22:05
18 like TransUnion and LexisNexis are unreliable? 10:22:08
19 (Witness viewed said document.)
20 THE WITNESS: I believe in that case -- 10:22:59
21 I'm just looking through. I'm trying to 10:23:02
22 refresh my recollection here. 10:23:05
23 I think the idea that they're 10:24:05
24 unreliable is baked into this report, but I 10:24:08

1 don't have a unique opinion that 10:24:10
2 identifies -- that sets out that they are 10:24:14
3 unreliable on their face. 10:24:16

4 I'm looking at paragraph 5. It 10:24:18
5 says, Should she find any name associated 10:24:23
6 with a cellular telephone number for the 10:24:26
7 relevant time frame, she declares them a 10:24:27
8 class member, and presumably plaintiff's 10:24:30
9 class [sic] will seek damages, despite having
10 no proof that they ever received a single 10:24:34
11 wrong telephone call. 10:24:35

12 I'm still reading. 10:24:42

13 BY MR. SMITH:

14 Q. Okay. 10:24:46

15 A. I also say here that the data brokers 10:24:46
16 rely on undisclosed source, the accuracy of which 10:24:50
17 varies widely. So the reliability is called into 10:24:54
18 question, in my opinion. 10:24:58

19 Q. And I just want to direct your 10:25:00
20 attention to paragraph 75, which is on Page 30. 10:25:02
21 And you can find the page numbers at the very top 10:25:06
22 on the page. 10:25:11

23 You'll see a header there that says 10:25:18

24 "Cellular Telephone Reverse Lookup Services Cannot 10:25:21

1	Identify Who Received a Wrong-Number Called."	10:25:24
2	Do you see that?	10:25:27
3	A. Uh-huh.	10:25:27
4	Q. Did I read that correctly?	10:25:27
5	A. Yes.	10:25:29
6	Q. And is that a fair summary of at least	10:25:29
7	one of the opinions that you set forth in the	10:25:33
8	Johnson v. Navient case?	10:25:38
9	A. Well, it's a verbatim recitation of one	10:25:40
10	of the headers, so I assume it's fair.	10:25:42
11	Q. Okay. All right. Are you offering a	10:25:48
12	similar opinion in this case?	10:25:52
13	A. I would say so.	10:25:53
14	Q. Okay. And do you recall in the	10:25:57
15	Johnson v. Navient case explaining that LexisNexis	10:26:08
16	disclaims the reliability of its telephone lookup	10:26:15
17	service?	10:26:17
18	A. Say it again, please.	10:26:17
19	Q. Do you recall if in the Johnson v.	10:26:18
20	Navient case, as part of your opinions offered in	10:26:20
21	that case, you explain that LexisNexis has a	10:26:24
22	disclaimer regarding the reliability of its	10:26:29
23	service or accuracy of its service?	10:26:33
24	A. I'd have to look if that particular	10:26:35

1 Q. -- I mean Berkeley Research Group? 10:27:48

2 A. Uh-huh. 10:27:50

3 Q. Okay. And you've worked for or with 10:27:50

4 BRG since 2015? 10:27:54

5 A. Correct. 10:27:58

6 Q. Since joining BRG in 2015, have you 10:27:58

7 ever personally used TransUnion's TLOxp service, 10:28:00

8 not counting any time where you may have directed 10:28:06

9 someone else to do it, but, I mean, you 10:28:10

10 personally? 10:28:13

11 A. Sure, all the time. 10:28:13

12 Q. All the time. Okay. 10:28:14

13 A. Did it yesterday. 10:28:16

14 Q. Was that in connection with this case 10:28:16

15 or another case? 10:28:18

16 A. Just in general. 10:28:19

17 Q. Okay. How frequently? Once a week? 10:28:20

18 Twice a week? Every day? 10:28:23

19 A. It -- there isn't an average. It 10:28:25

20 depends upon the need. So I would just say more 10:28:29

21 often than not I'm directing other people to pull 10:28:36

22 something in particular and they send the report 10:28:38

23 to me, but I personally use it maybe once a month. 10:28:40

24 Q. Okay. Prior to working at BRG, you 10:28:48

1 results of your test on Lexis to anyone for 10:40:41
2 independent peer review? 10:40:47
3 A. No. 10:40:48
4 Q. Did you ever ask anyone outside of BRG 10:40:49
5 to try and do the tests and see if they got the 10:40:57
6 same results? 10:40:59
7 A. No. 10:41:00
8 Q. In your report, you describe checking 10:41:01
9 TLO reports for yourself and Mr. Weir, is that 10:41:09
10 correct? 10:41:14
11 A. Correct. 10:41:14
12 Q. Okay. Is that the only test of TLO 10:41:14
13 that you describe in your report? 10:41:18
14 A. I guess I'm going to need to know what 10:41:20
15 you mean by "test," because I talk quite a bit 10:41:32
16 about the TLO results and the first seen and the 10:41:37
17 last seen and the probability and so forth, so... 10:41:40
18 I mean, the report speaks for itself. 10:41:44
19 Q. Okay. Have you ever tried to do, 10:41:48
20 independent of any specific litigation, a test 10:41:50
21 with respect to TransUnion data similar or akin to 10:41:53
22 what you did with Lexis in 2016? 10:41:57
23 A. No, we have not. 10:42:00
24 Q. Are you aware of any other independent 10:42:01

1 testing of the TLOxp service? 10:42:10

2 A. No. 10:42:14

3 Q. Do you believe you used the TLOxp for a 10:42:14

4 permissible purpose when you ran a report on 10:42:25

5 Mr. Weir? 10:42:29

6 A. Yes. 10:42:29

7 Q. And why is that? 10:42:29

8 A. Because it's part of the litigation, 10:42:30

9 and I'm also a private detective, licensed. 10:42:34

10 Q. Any other reason? 10:42:40

11 A. He put it at issue, the reliability of 10:42:41

12 it. So I think based on his report, it was part 10:42:50

13 of the case. 10:42:54

14 Q. Did you run any other TLOxp reports in 10:42:55

15 connection with this case, apart the one -- for 10:43:06

16 the one that you ran on yourself and on Mr. Weir? 10:43:08

17 A. Can you repeat that? 10:43:12

18 Q. Did you run any other TLOxp reports, 10:43:14

19 apart from the one that you described doing for 10:43:17

20 yourself and the one you described doing for 10:43:20

21 Mr. Weir? 10:43:23

22 A. As part of this litigation? 10:43:23

23 Q. Uh-huh. 10:43:24

24 A. I don't think so. We would have run 10:43:25

1 it for. And then, it was only then, that the risk 10:44:43
2 serv- -- the risk and in-house gave me permission. 10:44:47
3 So they were very well aware of what I was doing. 10:44:49
4 Q. Are you familiar with a company called 10:44:54
5 Neustar? 10:45:02
6 A. Yes. 10:45:02
7 Q. And do you have any information about 10:45:03
8 whether or not Citibank uses Neustar to help 10:45:06
9 Citibank avoid making calls to phone numbers that 10:45:12
10 had been reassigned? 10:45:17
11 A. My understanding is that they check the 10:45:19
12 Neustar data to determine whether or not numbers 10:45:21
13 may have been reassigned. I think there's a 10:45:27
14 probability of ownership score, and that comes 10:45:30
15 into play and is part of their decision-making and 10:45:35
16 part of their compliance policy and practice 10:45:38
17 regarding what numbers they're going to call. 10:45:42
18 Q. Do you have any criticisms of 10:45:47
19 Citibank's use of Neustar? 10:45:50
20 A. Well, I think as a bank that's making 10:45:52
21 calls that are potentially subject to the TCPA, 10:45:56
22 it's good that they're trying -- using the best -- 10:46:00
23 trying the best they can to identify reassigned 10:46:03
24 numbers. 10:46:07

1	A.	Uh-huh.	10:53:11
2	Q.	-- 2017, is that correct?	10:53:12
3	A.	That's what it says.	10:53:13
4	Q.	Okay. And did you look at the account	10:53:15
5		level notes associated with this number?	10:53:17
6	A.	Yes.	10:53:18
7	Q.	And is that how you were able to	10:53:19
8		determine that on July 19, 2017 a Citibank agent	10:53:22
9		had changed the Phone Indicator Code to a bad	10:53:31
0		number?	10:53:38
1	A.	Yes.	10:53:38
2	Q.	I want you to assume that Citibank has	10:53:39
3		taken the position in this case that prior to	10:53:54
4		July 19th, it thought it had consent to call	10:53:57
5		Mr. Revitch's number.	10:54:02
6	A.	Uh-huh.	10:54:03
7	Q.	Have you seen anything to contradict	10:54:03
8		that?	10:54:06
9	A.	I'd have to look at the dates on the	10:54:07
0		account records, because I recall that there were	10:54:12
1		conversations where Mr. Revitch said "stop calling	10:54:18
2		me," and he was called again because there was an	10:54:22
3		error by the customer service agent where it	10:54:24
4		appears that she should have called it a bad	10:54:30

1 number and didn't. 10:54:33

2 Q. Okay. 10:54:35

3 A. And I don't recall the precise dates. 10:54:36

4 It's in the account notes when he made that 10:54:38

5 objection. 10:54:40

6 So there was a -- an error by the 10:54:41

7 customer service agent that was rectified by Pearl 10:54:45

8 Baca because she's the one that changed the 10:54:50

9 indicator data to bad. That's when it happened. 10:54:56

10 Q. Do you recall what the phone indicator 10:54:58

11 data was for Mr. Revitch's number prior to 10:55:00

12 July 19, 2017? 10:55:05

13 A. I'd be guessing. I know what it was 10:55:05

14 afterwards. 10:55:10

15 Q. Okay. There was -- 10:55:10

16 A. It's in the account. It's totally in 10:55:14

17 the account data. 10:55:15

18 Q. Okay. Some kind of consent record 10:55:16

19 prior to July 19, 2017? 10:55:17

20 A. It will say in the account records 10:55:19

21 changes J to B or N to V. I mean, it tells you 10:55:22

22 what it was and what it is, and it's in the 10:55:27

23 capital letters when it happens. 10:55:30

24 Q. And do you know if prior to July 19, 10:55:32

1	THE VIDEOGRAPHER: This is the end of	10:57:56
2	DVD No. 1. The time is 10:57 a.m. We are	10:57:58
3	off the record.	10:58:05
4	(Whereupon, a recess was had	11:06:36
5	from 10:57 a.m. to 11:06 a.m.)	11:06:38
6	THE VIDEOGRAPHER: This is the	11:06:38
7	beginning of DVD No. 2. The time is	11:06:44
8	11:06 a.m. We are back on the record.	11:06:48
9	BY MR. SMITH:	11:06:51
10	Q. Ms. Daley, on paragraph 21, you were	11:06:51
11	just describing a moment ago a variety of consent	11:06:56
12	codes that are --	11:06:59
13	A. Right.	11:06:59
14	Q. -- that Citibank uses?	11:07:00
15	A. Uh-huh.	11:07:01
16	Q. And can these consent codes generally	11:07:01
17	be found in the account level notes that you were	11:07:08
18	also describing?	11:07:12
19	A. Yes.	11:07:15
20	Q. Okay. And do you know if the codes in	11:07:17
21	the account level documents that were associated	11:07:18
22	with Mr. Revitch's phone number were accurate	11:07:22
23	prior to July 19, 2017?	11:07:26
24	A. By "accurate," what do you mean?	11:07:29

1 Q. Did they indicate consent, lack of 11:07:34
2 consent, wrong number? 11:07:37
3 A. I can say that they would include 11:07:38
4 whatever number was assigned. 11:07:44
5 My hesitancy is that we know in 11:07:52
6 particular with regard to Mr. Revitch that he 11:07:56
7 asked not to be called and there was a delay in 11:07:59
8 putting the bad number code in. 11:08:01
9 So I would presume that in the time and 11:08:11
10 -- between when he made that request and it wasn't 11:08:14
11 fulfilled -- and it was fulfilled, but there was a 11:08:17
12 code that was not correct with regard to his 11:08:20
13 consent. 11:08:29
14 Q. Okay.
15 A. But that's the only one that I could 11:08:29
16 ever opine on because we have notes and telephone 11:08:30
17 calls that we've listened to and et cetera. 11:08:34
18 Q. I want to direct your attention to your 11:08:37
19 expert report, Page 16, Footnote 35. 11:09:24
20 And the last sentence -- 11:09:31
21 A. Just give me a second -- 11:09:36
22 Q. Okay. 11:09:38
23 A. -- so I can read it. 11:09:39
24 Q. Go ahead. 11:09:41

1 first seen date that may only exist for one date 11:14:53
2 in time. 11:14:57

3 That is why we have the 120 that end up 11:14:59
4 being identified by him as being potential class 11:15:05
5 members when they are, in fact -- the TLO data 11:15:09
6 itself shows you that it is more likely than 11:15:12
7 not -- or at least the best association that they 11:15:16
8 have is -- for the person using that phone, best 11:15:19
9 association TLO gives you is the same name as the 11:15:24
10 accountholder. 11:15:27

11 Q. You believe Mr. Weir should have looked 11:15:27
12 at the last seen date? 11:15:30

13 A. I believe -- well, I don't believe he 11:15:31
14 should be using TLO at all because I think it's 11:15:34
15 highly unreliable. I find all of the dates bad. 11:15:38

16 But at least if you look at the last 11:15:41
17 seen date, that means that they have a -- TLO is 11:15:43
18 reporting back that it's an indication, "Hey, I 11:15:46
19 have something somewhere. I won't tell you what 11:15:50
20 it is. I won't tell you -- you know, I can't tell 11:15:53
21 you how reliable this particular piece of data is. 11:15:54
22 However, I've got something that is associating 11:15:58
23 them with this number as of this date." 11:16:04

24 If I were Mr. Weir and I was advocating 11:16:07

1 Q. All right. Now, I think you said 11:25:42
2 before, you eliminated 120 numbers or people from 11:25:43
3 the sample set based on the last date seen, is 11:25:47
4 that correct? 11:25:51

5 A. No, that wasn't -- if we go back -- I 11:25:51
6 want to make sure I get this correct. 11:25:56

7 Yeah, that is correct. Removing the 11:26:17
8 120 phone numbers, it actually matched the 11:26:20
9 Citibank accountholders once the reported last
10 seen dates are accounted for, using his data. 11:26:29

11 And that indicated -- and we also 11:26:30
12 wanted to make sure that the first and the last 11:26:34
13 seen dates had some overlap with the date that the 11:26:36
14 calls were made. So we baked into it as well, the 11:26:40
15 thing that Mr. Weir did not, which is, is there a 11:26:44
16 correlation between these first seen and last seen 11:26:47
17 dates and the time the calls were made. That is 11:26:50
18 something that he completely did not take into 11:26:53
19 consideration. 11:26:55

20 Q. When you say that, do you mean you 11:26:56
21 wanted the call -- you had a first seen date and 11:26:58
22 you had a last seen date and you wanted the call 11:27:01
23 to have occurred at some point in between those 11:27:03
24 two dates? 11:27:06

1	A.	Correct.	11:27:07
2	Q.	I see.	11:27:11
3	A.	Or -- or -- I mean, it's probably a	11:27:11
4		little bit broader than that in that some of the	11:27:12
5		calls -- because there were many calls. We didn't	11:27:15
6		do an analytic on every one, but it had to bracket	11:27:17
7		within the first and last seen date.	11:27:22
8		So there might have been a call, let's	11:27:26
9		say, prior to the last seen date. And the last	11:27:29
10		seen date might have been, let's say, November of	11:27:33
11		2018. And there might have been another call	11:27:36
12		after that, but we don't have another last seen	11:27:39
13		date. But it would have been banded within; there	11:27:44
14		was a correlation. We did not count anywhere it	11:27:47
15		was -- to the left of the first seen date or to	11:27:50
16		the right of the last seen date.	11:27:53
17		Does that make sense?	11:27:55
18	Q.	Yes.	11:27:56
19	A.	Okay.	11:27:57
20	Q.	And when you engaged in that process,	11:27:57
21		did you assume that the first seen date and the	11:27:59
22		last seen dates were accurate?	11:28:01
23	A.	No, we used his data. We just said --	11:28:03
24		I mean, I do not believe that these dates are	11:28:07

1 accurate, just period, under any circumstances. 11:28:10

2 But we're testing his methodology and we're trying 11:28:14

3 to determine, based on his stated goals of what 11:28:19

4 he's trying to do, does he do that, right? 11:28:25

5 So our use of the first seen and last 11:28:29

6 seen date is our way of testing what he did to see 11:28:33

7 if it holds water based on what he's claiming 11:28:36

8 it's -- the results are, okay? So it is 11:28:39

9 independent of my personal view and my opinion 11:28:45

10 that those dates are inaccurate in general and 11:28:47

11 unreliable. 11:28:50

12 Q. I'd like to direct your attention to 11:28:52

13 Page 22, paragraph 70. 11:29:35

14 (Witness viewed said document.) 11:30:14

15 THE WITNESS: Uh-huh. 11:30:19

16 BY MR. SMITH: 11:30:20

17 Q. In paragraph 70 of your report, you 11:30:21

18 note or you opine that Mr. Snyder acknowledged 11:30:23

19 that the wrong number codes do not always indicate 11:30:28

20 the literal truth that the wrong person was, in 11:30:32

21 fact, contacted or that a call was made without 11:30:36

22 consent. 11:30:40

23 Do you see that? 11:30:40

24 A. Uh-huh. 11:30:41

1 Q. Now, in that sentence, are you 11:30:41
2 referring to wrong number codes in the phone 11:30:44
3 indicator database or the account notes or both? 11:30:49
4 A. Well, the account notes go back in 11:30:52
5 time. It has the audit trail essentially. The 11:30:59
6 Contact Utilities Database does not. That just 11:31:05
7 starts in November of 2017. 11:31:08
8 Mr. Snyder only included data in the 11:31:11
9 Contact Utilities Database. So I'm referring to 11:31:14
10 Mr. Snyder's conclusion of this step. 11:31:17
11 Now, I believe that he didn't 11:31:21
12 understand what was in the Contact Utilities 11:31:24
13 Database, the date ranges that it contained. And 11:31:29
14 so when you bake that error in, it's -- you know, 11:31:32
15 I don't know what he would have -- his -- he -- 11:31:37
16 the statement is his methodology presumes -- and I 11:31:47
17 think he thought the Contact Utilities Database 11:31:53
18 went all the way back in time, okay? 11:31:55
19 So if you put that as a -- you know, if 11:31:57
20 we agree that that's what he thought, my answer is 11:32:01
21 his inclusion of this change in the con-- -- in 11:32:07
22 the indicator codes was an acknowledgment that 11:32:12
23 over time wrong numbers -- the same wrong number 11:32:15
24 can be then changed to be a consent to call, that 11:32:17

1	they're not always accurate as a wrong number.	11:32:24
2	Because somebody may say -- these are	11:32:29
3	debt collection calls, right? So you're getting a	11:32:32
4	phone call that you don't necessarily want because	11:32:36
5	somebody is telling you you owe them money, right?	11:32:39
6	So, "Hi, this is Citibank. Please -- are you	11:32:42
7	aware your payment is late?"	11:32:45
8	And, oops, do we need to stop?	11:32:49
9	THE VIDEOGRAPHER: The time is	11:32:55
10	11:32 a.m. We are off the record.	11:32:56
11	(A pause was had in the	11:33:02
12	proceedings.)	11:33:05
13	THE VIDEOGRAPHER: The time is	11:33:05
14	11:33 a.m. We are back on the record.	11:33:33
15	THE WITNESS: So people may say, "Hey,	11:33:37
16	this is the wrong number." Or what they say	11:33:39
17	might be interpreted by the -- the customer	11:33:42
18	service agent is it's a bad number, it's a	11:33:47
19	wrong number may be incorrectly. It gets	11:33:50
20	coded that way.	11:33:53
21	And they may call back in and say,	11:33:54
22	"I want to make a payment." And then they'll	11:33:57
23	say, "Is it okay to talk to you on this	11:33:59
24	phone? Is this an okay number?" And they'll	11:34:02

1 say, "Yes." 11:34:03

2 So there's -- the decisions and 11:34:03

3 the statements by the customers who are 11:34:08

4 answering the phone can change over time, and 11:34:09

5 that was being acknowledged by Mr. Snyder and 11:34:12

6 Mr. Weir by trying to exclude telephone 11:34:16

7 numbers that originally had a bad number but 11:34:22

8 subsequently got changed to consent. That 11:34:25

9 was their -- my understanding was that was 11:34:27

10 their acknowledgment of that reality. 11:34:29

11 BY MR. SMITH: 11:34:32

12 Q. So is it the case, this problem that 11:34:35

13 you're describing, does that suggest that 11:34:39

14 sometimes the -- the focusing on the consent 11:34:41

15 indicator change database, that wrong number in 11:34:45

16 the codes -- wrong number codes in that database 11:34:50

17 may not actually accurately reflect the notion 11:34:54

18 that a wrong number call had been made? 11:35:00

19 A. That's correct. 11:35:03

20 Q. Does that also hold true for the 11:35:03

21 account notes? 11:35:07

22 I mean, if there's a wrong number code 11:35:10

23 in the database, would there also -- and let's 11:35:12

24 say -- strike that. 11:35:15

1 Let's say there's an incorrectly marked 11:35:17
2 wrong number code in the database. Would you 11:35:19
3 expect to find that same code in the account 11:35:22
4 notes? 11:35:26
5 A. Not necessarily, because the phone 11:35:26
6 indicator data sometimes is updated automatically. 11:35:31
7 Let's say if a phone number is disconnected and so 11:35:35
8 it's a bad number now. So there isn't any 11:35:41
9 interaction with a customer service agent. 11:35:43
10 Q. Well, let's put aside that scenario. I 11:35:45
11 mean, is it -- is it -- is it possible that 11:35:48
12 incorrect wrong number codes are also reflected in 11:35:51
13 the account level notes? 11:35:55
14 A. Yeah, I think -- I think that is 11:35:57
15 certainly possible because you're dealing with 11:36:01
16 human error. So if a -- if there's a customer 11:36:04
17 service call with an individual and they 11:36:08
18 misinterpret what's being told to them, and they 11:36:10
19 make a decision to change an indicator code that 11:36:14
20 isn't accurately reflecting what the customer 11:36:18
21 wanted or instructed them to, then the phone 11:36:21
22 indicator database would reflect that error. But, 11:36:27
23 you know, that's because there's no perfect system 11:36:30
24 when you're dealing with human beings. 11:36:32

1 Q. Okay. So going back to the consent 11:36:36
2 codes you identify in paragraph 21 of your report. 11:36:48
3 A. Uh-huh. 11:37:06
4 Q. At the end of the chart, you've got the 11:37:07
5 codes for not valid/bad number, which is N or B, 11:37:13
6 depending on whether or not you're looking at FDR 11:37:18
7 or IBS, is that right? 11:37:22
8 A. Yes. 11:37:25
9 Q. Okay. So those -- those number -- or 11:37:26
10 those letter codes that you see in the account 11:37:28
11 level documents may or may not be accurate because 11:37:32
12 sometimes people lie about receiving a wrong 11:37:37
13 number? 11:37:39
14 A. Well, these are the same things -- they 11:37:39
15 reflect exactly what is in the phone indicator 11:37:41
16 data except it goes back in time. 11:37:45
17 Q. Right. 11:37:47
18 A. So to the extent you believe that some 11:37:47
19 of the phone indicator data is not accurate -- 11:37:50
20 like Mr. Revitch is an example. He asked this is 11:37:54
21 a wrong number. It should have been updated the 11:37:57
22 first time he said that. It wasn't. It was a 11:38:00
23 customer service error. 11:38:05
24 But I've seen nothing -- my review of 11:38:06

1 changes that your experts themselves have 11:43:59
2 indicated or warranted is by doing an account 11:44:02
3 level review because that's the only place you can 11:44:05
4 find it. 11:44:09
5 Q. By the same token, could you -- would 11:44:09
6 it be problematic to rely on codes to identify if 11:44:17
7 there was consent to call? 11:44:22
8 For instance, looking at the top of the 11:44:24
9 chart on paragraph 21, you've got an entry that 11:44:28
10 says "Consent to Call Only." 11:44:31
11 And if you looked for the codes V or A, 11:44:32
12 would that be a reliable or an unreliable method 11:44:34
13 for trying to identify whether calls were made 11:44:38
14 with consent? 11:44:41
15 A. I haven't undertaken any kind of 11:44:42
16 analysis, so I don't have an opinion on that. 11:44:44
17 Q. Okay. So you can't say one way or 11:44:45
18 another today? 11:44:48
19 A. No, because you would have to go 11:44:48
20 through an account level review and determine -- 11:44:50
21 you'd have to take a sample, a statistically sound 11:44:53
22 sample and review the account notes and determine 11:44:58
23 whether or not the codes, as they are identified, 11:45:01
24 match the information in the account records. 11:45:08

1 However, I will say a lot of this is 11:45:13
2 automated. And so, for example, when somebody 11:45:16
3 puts in their telephone number on an online 11:45:21
4 application, that's a consent to call and that's 11:45:25
5 probably going to have a very high reliability -- 11:45:28
6 high level of reliability. 11:45:31

7 When they revoke it, that's a very 11:45:34
8 different situation because often that is a 11:45:37
9 communication with an individual and so it's more 11:45:40
10 likely to have room for error. Whatever that 11:45:43
11 level of error is I have no idea. 11:45:48

12 Q. Do you know whether or not the reason 11:45:50
13 Mr. Revitch started receiving wrong number calls 11:45:53
14 in this case was because a gentleman named 11:45:56
15 Mr. Axlerod had input his wrong phone number on 11:45:59
16 the Internet? 11:46:02

17 A. Yes, I'm sure that's -- I know that's 11:46:02
18 the case. Most people know their phone number, 11:46:04
19 though. 11:46:06

20 Q. If plaintiffs' expert modified the 11:46:06
21 methodology to focus on wrong number account 11:46:11
22 information in the account level documents instead 11:46:18
23 of the database and the codes, would that be, in 11:46:22
24 your view, a more reliable method for identifying 11:46:28

1 Daley. I am not Marcos Sasso, your 11:48:07
2 accountholder," and they're typing all of that 11:48:11
3 information in. 11:48:14
4 The call recipient on wrong number call 11:48:15
5 is typically not captured in the account records. 11:48:18
6 It's not a part of the business records of the 11:48:22
7 bank. 11:48:25
8 What they need to know is, ooh, this is 11:48:25
9 a bad number, don't call it anymore. They click 11:48:29
10 the button and they put it into the system not to 11:48:33
11 call. 11:48:35
12 They don't capture the name of the 11:48:35
13 wrong number recipient. Nine times out of ten 11:48:37
14 those people are angry that they're getting phone 11:48:43
15 calls and they're not trying to give their name. 11:48:44
16 They're just saying, "Stop it." So that is not 11:48:45
17 part of the records. 11:48:46
18 The only way you can identify the 11:48:47
19 recipient of the call records is to know who got 11:48:50
20 that call. Your experts are suggesting that they 11:48:55
21 can do that by using TLO. My report demonstrates 11:48:59
22 how -- how highly unreliable that is. You will 11:49:03
23 not be compensating the right people by using TLO. 11:49:08
24 You will not get the call recipients of a wrong 11:49:14

1 number call by using the methodology that's been 11:49:16
2 outlined by your -- your experts. 11:49:20
3 Q. Back to paragraph 70. 11:49:24
4 A. Just give me a sec. Let me read it. 11:50:32
5 (Witness viewed said document.)
6 THE WITNESS: Oh, yes, uh-huh. 11:50:46
7 BY MR. SMITH:
8 Q. At the end of the paragraph, you say, 11:50:48
9 "Mr. Snyder apparently concedes that the 11:50:50
10 overwhelming majority of calls marked as wrong 11:50:53
11 numbers appear to have been made to account 11:50:56
12 holders." 11:51:00
13 Do you see that? 11:51:00
14 A. Yes. 11:51:00
15 Q. And is it your opinion that the 11:51:00
16 overwhelming majority of calls that were marked as 11:51:02
17 wrong numbers appeared to have been made to 11:51:06
18 accountholders? 11:51:09
19 A. "Appear" is the operative word here. 11:51:10
20 There's a reason that was drafted the way it is. 11:51:13
21 I have no idea who actually received 11:51:16
22 those calls. Mr. Snyder does not know who 11:51:18
23 received those calls. I don't know who received 11:51:21
24 those calls. 11:51:23

1 But when you use the TLO data, it is -- 11:51:24
2 as I talk about the feedback loop, they're just 11:51:27
3 giving you back the same name as the 11:51:30
4 accountholder, based on the fact they're pulling 11:51:34
5 that kind of data. 11:51:36

6 And it's typically not updated. So if 11:51:38
7 indeed one of the accountholders abandoned their 11:51:41
8 telephone call -- their telephone number and it 11:51:45
9 was reassigned, TLO isn't giving you the name of 11:51:48
10 that new -- new cellular telephone number owner or 11:51:51
11 subscriber. 11:51:57

12 And I think there's another sentence in 11:52:03
13 my report that talks about that particular issue 11:52:05
14 somewhere that -- saying -- saying just what I 11:52:08
15 just said. 11:52:11

16 Q. In paragraph 72 of your report, you 11:52:13
17 note that you have decades of experience using 11:52:39
18 TLO, LexisNexis, and other data -- data vendors? 11:52:43

19 A. Yes. 11:52:46

20 Q. Do you have decades of experience with 11:52:46
21 TransUnion in particular? 11:52:53

22 A. Well, TransUnion is a -- well, 11:52:53
23 TransUnion is an interesting company, because 11:52:59
24 TransUnion bought TLO back in like 2012, 2013. 11:53:01

1	A.	Yes.	11:58:19
2	Q.	Okay.	
3	A.	Yeah, not a different one. Sorry if I	11:58:21
4		wasn't clear.	11:58:23
5	Q.	Is one of your critiques of the	11:58:25
6		methodology employed by Mr. Weir in this case that	11:59:02
7		he only took into account last names as opposed to	11:59:04
8		first and last name?	11:59:08
9	A.	Yes.	11:59:10
10	Q.	And on paragraph 78 of your report, you	11:59:10
11		have an anecdote about Veronica Cabrales and	11:59:19
12		another person named Veronica Martinez, who may or	11:59:24
13		may not be the same person?	11:59:30
14	A.	Correct. They are the same person.	11:59:31
15	Q.	You believe they are the same person?	11:59:33
16	A.	They are the same person.	11:59:34
17	Q.	Okay.	
18	A.	TLO tells you they're the same person.	11:59:36
19		He just didn't get the alias report.	11:59:38
20	Q.	And you trust TLO's information for the	11:59:41
21		purposes of determining that these two people are	11:59:43
22		the same person?	11:59:46
23	A.	Well, they've got the data that would	11:59:46
24		show that they -- over time, so...	11:59:48

1 And I believe we also did Internet 11:59:50
2 research that confirmed it -- 11:59:53
3 Q. So -- 11:59:56
4 A. Because -- 11:59:57
5 Q. I'm sorry. Go ahead. 11:59:57
6 A. I'm not sure with this particular one. 11:59:58
7 I'm trying to see. 12:00:01
8 Yeah, this one we're relying on the -- 12:00:02
9 we're relying on the TLO report, which is -- which 12:00:06
10 is -- which identifies them as an alias. 12:00:13
11 So I certainly wouldn't -- if I'm 12:00:18
12 relying -- if I'm relying on TLO, which Mr. Weir 12:00:20
13 is, if TLO is telling me they're the same person, 12:00:22
14 I don't know how you say that they aren't. 12:00:26
15 Because it's Mr. Weir that's saying that they're 12:00:30
16 highly reli- -- that TLO is highly reliable and 12:00:32
17 they know what they're talking about. And so I 12:00:34
18 don't know how he would discount TLO's association 12:00:37
19 of these two people being the same person. 12:00:41
20 Q. Who else on the list of phone numbers 12:00:43
21 or people identified in the sample set do you 12:00:48
22 think were misidentified as potential class 12:00:51
23 members as a result of looking only at last names? 12:00:58
24 A. Actually, we found another one 12:01:02

1 Q. Uh-huh. 12:09:37

2 A. Like companies in general? 12:09:38

3 Q. Companies in general. 12:09:39

4 A. I don't have any opinion about 12:09:40

5 companies in general. 12:09:42

6 Q. Do you have any opinion about banks in 12:09:43

7 general? 12:09:45

8 A. I have not undertaken any analysis that 12:09:45

9 would be able to allow me to form an opinion as to 12:09:52

10 how prevalent that is. 12:09:58

11 Q. Do you have any understanding about 12:10:00

12 whether or not Citibank sometimes has outdated 12:10:01

13 information about people? 12:10:07

14 A. Well, if you look at Mr. Revitch, the 12:10:09

15 information in the Contact Utilities Database was 12:10:16

16 outdated because he had told them his number was 12:10:21

17 that number and that it was not the account 12:10:26

18 numbers. So for a particular period of time, that 12:10:28

19 Contact Utilities Database was outdated in terms 12:10:32

20 of its information relating to him. 12:10:35

21 So anecdotally, if you go through the 12:10:38

22 account records, you can find circumstances in 12:10:42

23 which that may be the case. 12:10:46

24 Q. Earlier today I think you testified you 12:10:48

1 years. And they only give -- it's towards 12:12:05
2 the back. I can't remember what the date is, 12:12:08
3 but it's old. 12:12:11
4 They don't know that I've been 12:12:12
5 using this phone in continuous use. Despite 12:12:14
6 the fact that if you put that telephone 12:12:19
7 number on the Internet and Google it, you 12:12:21
8 will come up with my name because my cell 12:12:24
9 phone is listed in our directory, our online 12:12:27
10 directory. So how come they don't get that, 12:12:30
11 right? I -- there just aren't studies done 12:12:34
12 because they don't disclose anything about 12:12:40
13 the nature of the data that they're pulling 12:12:42
14 from. 12:12:45
15 BY MR. SMITH: 12:12:45
16 Q. Do you have an opinion, one way or 12:12:45
17 another, about whether outdated information from 12:12:48
18 companies can be one cause for unreliable 12:12:53
19 information in the last seen date? 12:12:56
20 MR. SASSO: Object to the form. 12:13:00
21 THE WITNESS: It's possible, but I 12:13:01
22 don't really have an opinion. I have no idea 12:13:04
23 of where they're getting their data from. 12:13:06
24 ///

1 the data, the Metadata per se, the TLO reports, 12:15:11
2 that all of the pieces of the information should 12:15:16
3 have been considered unless he had a reason to 12:15:20
4 believe that it was irrelevant or unreliable. 12:15:23

5 Now, the probability of ownership 12:15:29
6 scoring is TLO's own assessment of the reliability 12:15:32
7 of what it is reporting. TLO is the only one that 12:15:36
8 knows what the source of that association is. 12:15:41
9 They -- they know whether or not it's a 12:15:45
10 document -- it's coming from a document they 12:15:51
11 consider to be reliable or it's from some junkie 12:15:56
12 lead list that they bought five years ago from God 12:15:58
13 knows who. I don't know where this data is coming 12:16:01
14 from, but TLO does. 12:16:04

15 And one of the things that it tries to 12:16:05
16 do, I would argue poorly, but at least it's 12:16:06
17 trying, is to advise its clients how reliable a 12:16:11
18 particular association is that it's reporting, 12:16:19
19 because they make the decision that we're going to 12:16:21
20 report everything; you're going to get the whole 12:16:23
21 kitchen sink, everything. And so I'm going to 12:16:26
22 report to you the -- the gossip that I got from 12:16:29
23 my -- my mother, and I'm going to report to you 12:16:36
24 information that I received from a government 12:16:38

1 probability of ownership includes with it the 12:17:59
2 totality of associations, the quality of 12:18:04
3 associations. 12:18:09

4 So his methodology, which is the "I'm 12:18:10
5 just going to pick the most recent first seen 12:18:16
6 date," makes zero sense, absolutely zero sense, 12:18:21
7 because it is saying I'm going to ignore the 12:18:27
8 totality of the documentation that TLO has, the 12:18:31
9 quality of the association, the sources, and TLO's 12:18:35
10 own view of how reliable this is. I'm going to 12:18:41
11 substitute my own judgment. I'm just going to 12:18:46
12 pick this one weird little thing that, according 12:18:49
13 to me at least, nobody told me it is unreliable, 12:18:52
14 because they told him -- apparently they told him 12:18:56
15 the other things were unreliable. And it 12:18:57
16 substitutes his own judgment and ignores 12:19:01
17 overwhelming evidence that an individual is, like 12:19:04
18 usually the bank, accountholder, is still 12:19:09
19 associated with a phone number. 12:19:11

20 So that -- that is what those 12:19:14
21 paragraphs attempt to articulate. 12:19:16

22 Q. Do you think Mr. Weir should have given 12:19:19
23 more weight to what TransUnion says about its 12:19:21
24 products? 12:19:25

1	A.	I think that ignoring it based on the	12:19:25
2		statements of some unnamed account executive is --	12:19:28
3		is troubling. I think that, at the very least, if	12:19:34
4		he believes that it is reliable data to begin	12:19:39
5		with, he should be taking it into consideration.	12:19:43
6	Q.	Okay. He should not ignore what	12:19:48
7		TransUnion says about its products?	12:19:50
8	A.	I think it's -- I think it's a data	12:19:52
9		point that he should be considering. What weight	12:19:55
10		he gives it, I don't know, but I can tell you that	12:19:57
11		ignoring it leads to the results that he has.	12:20:00
12	Q.	Apart --	12:20:09
13	A.	He's just cherry picking --	12:20:10
14	Q.	I'm sorry.	
15	A.	He's cherry picking one data point and	12:20:13
16		creating a class based on it, and the results are	12:20:14
17		very unreliable as a result. But I think all of	12:20:18
18		this data is unreliable.	12:20:20
19	Q.	All --	
20	A.	I wouldn't use any of it.	12:20:23
21	Q.	Any of what? The probability score?	12:20:24
22	A.	I wouldn't use the probability score.	12:20:26
23		I wouldn't use any of it. I don't think it's	12:20:29
24		capable in any way, shape or form of identifying	12:20:31

1 the class members that are -- that would be the 12:20:35
2 members of the class as defined by the plaintiffs. 12:20:40
3 I don't think it can be done. 12:20:45
4 Q. Apart from anything you did in 12:20:46
5 connection with this case, have you ever used 12:20:49
6 TransUnion's probability of ownership score? 12:20:53
7 A. I don't think so. 12:20:56
8 Q. So the only time you used it was to run 12:20:59
9 a report on yourself and Mr. Weir? 12:21:02
10 A. No. We've used -- I mean, it's been 12:21:04
11 part of the data that we've received in other 12:21:08
12 cases. 12:21:10
13 Because Verkhovskaya has -- I've been 12:21:11
14 in a number of cases with her, and she uses a 12:21:15
15 completely different methodology than Mr. Weir and 12:21:20
16 Mr. Snyder. And she uses both LexisNexis and TLO. 12:21:24
17 I think she calls it a reverse waterfall. 12:21:29
18 And so she has produced to us TLO data, 12:21:33
19 and I'm not sure if it had the probability score, 12:21:38
20 but it may well have. So this wouldn't have 12:21:41
21 been -- if it did, this isn't the only time we've 12:21:46
22 seen it. This is the case in which I've given it 12:21:48
23 the most attention. 12:21:50
24 Q. I see. Okay. 12:21:52

1 I could take a break in a little bit, 12:32:44
2 if you have a good stopping point, like five, ten 12:32:45
3 minutes. 12:32:48
4 Q. Yeah, I have just a few more questions. 12:32:49
5 A. Whatever is convenient for you. 12:32:51
6 Q. Yeah. On the last sentence of 12:32:56
7 paragraph 102, you note that the -- Citibank uses 12:32:58
8 a TCPA compliance mechanism that updates some 12:33:04
9 telephone numbers that appear in multiple accounts 12:33:11
10 to conform them to the lowest common level of 12:33:14
11 consent. 12:33:17
12 Do you see that? 12:33:19
13 A. Uh-huh. 12:33:19
14 Q. Can you explain what you meant by that? 12:33:19
15 What is -- what do you mean by the lowest level of 12:33:22
16 consent? 12:33:25
17 A. Well, I would refer you back to 12:33:26
18 Mr. Andrew Meeks' -- Todd Andrew Meeks' 12:33:28
19 declaration because he's really the expert there 12:33:34
20 and I'm referencing his statements. 12:33:37
21 But in terms of what I meant when I 12:33:41
22 drafted it, the lowest level of consent would be 12:33:43
23 "don't call me, you have no consent." 12:33:47
24 Q. Okay. 12:33:51

1 A. So if somebody says "do not call me" or 12:33:52
2 "this is a bad number," that means no consent. No 12:33:56
3 consent would be the lowest level of consent. 12:34:01

4 Middle range would be you can text me, 12:34:04
5 but don't call me; you can call me, but don't text 12:34:07
6 me. 12:34:11

7 Highest level would be, call me, text 12:34:11
8 me, this number is yours to communicate with me in 12:34:15
9 any way you want. 12:34:17

10 Q. And does that lowest level of consent 12:34:19
11 track to the account or the telephone number or 12:34:21
12 the customer name or something else or all of the 12:34:25
13 above? 12:34:27

14 A. I'm not sure -- well, this is all 12:34:27
15 specific to each individual account. You can 12:34:32
16 have -- I mean, people have multiple accounts with 12:34:36
17 Citibank. You can have multiple credit cards. 12:34:38
18 You got -- you can have ten credit cards that 12:34:43
19 they're -- that they're servicing either as a 12:34:46
20 Citibank credit card or your kid has a card and 12:34:48
21 you signed on as a signatory for him. 12:34:52

22 I mean, people have very different 12:34:57
23 relationships with the bank. Some of them are 12:34:59
24 very complex because there are a lot of different 12:35:01

1 they -- while they appear to have different names, 01:45:36
2 they clearly are related. They are on each 01:45:39
3 other's accounts and they share the same telephone 01:45:41
4 number. 01:45:44
5 Q. Did you -- 01:45:50
6 A. None of which you would know without 01:45:50
7 digging into the account notes. 01:45:52
8 Q. Did you conduct any analysis of how 01:45:55
9 frequently agents make mistakes in terms of 01:45:57
10 flagging wrong numbers or any other consent codes? 01:46:01
11 A. Well, we looked at the -- the data of 01:46:05
12 the account records and we noted it where we saw 01:46:08
13 it. I mean, obviously, it happened with 01:46:14
14 Mr. Revitch. It happens here. I mean, it -- it's 01:46:17
15 something that occurs. 01:46:20
16 Q. Where did you note it? Did you keep a 01:46:21
17 running tally? 01:46:24
18 A. In the report where we've identified 01:46:25
19 it. 01:46:27
20 Q. So this report contains every instance 01:46:28
21 where you found an example of agent error? 01:46:30
22 A. No. 01:46:33
23 Q. Okay. What other documents could I 01:46:34
24 look at to discern other examples where you found 01:46:37

1 Database recorded a change in consent from B 01:49:37
2 to N. 01:49:40
3 A. Let me go back and read the context 01:49:41
4 here and I'll answer that. 01:49:43
5 (Witness viewed said document.) 01:49:46
6 THE WITNESS: I don't know for sure, 01:49:47
7 but it wouldn't surprise me if it had 01:50:33
8 something to do with the name change, that 01:50:39
9 they received information that it was a 01:50:42
10 different last name, voicemail message, 01:50:47
11 et cetera, but that's speculation. 01:50:53
12 BY MR. SMITH: 01:50:56
13 Q. On Page 186 of your report, you note, 01:52:06
14 "Mr. Weir has the lowest level of TLO's 01:52:11
15 subscription service." 01:52:17
16 A. You mean paragraph 186? 01:52:23
17 Q. Did I say page? 01:52:25
18 A. Yes. 01:52:25
19 Q. I meant paragraph, yes. Thank you.
20 A. That's why I didn't include all that 01:52:29
21 other analysis. I was afraid I would get to 186. 01:52:31
22 Q. Let's go to paragraph 186. 01:52:31
23 A. Yes, uh-huh.
24 Q. And I'm just focused on the first 01:52:34

1 sentence. I just want to know what you meant when 01:52:35
2 you said, "Mr. Weir has the lowest level of TLO's 01:52:38
3 subscription service." 01:52:43
4 A. 25 bucks a month. 01:52:43
5 Q. That's a price, but -- 01:52:44
6 A. That gives you the lowest level of 01:52:45
7 access. It's one of those -- the databases will 01:52:47
8 charge you a certain amount of per monthly fee and 01:52:54
9 you get to -- you may have an all you can eat. 01:53:00
10 You may have a -- you get this much data and it's 01:53:05
11 cheaper. So if you can guess the level -- you 01:53:08
12 get -- you pay the least amount based on what you 01:53:12
13 expect is going to be your known level of use. 01:53:15
14 And I'll see if I can unpack that a little bit 01:53:19
15 because I can see I'm confusing you. 01:53:22
16 If you are using these databases on a 01:53:25
17 regular basis -- and this is much like a Westlaw 01:53:29
18 subscription for a law firm, right? If you're 01:53:32
19 going to use it a lot, you want to pay a certain 01:53:35
20 amount because you want to pay close to the amount 01:53:38
21 that you're going to -- you want to pay for the 01:53:43
22 amount of volume that you know you're going to get 01:53:46
23 in. Because if you go over that, the price gets 01:53:48
24 really expensive very fast. 01:53:51

1 thing. 01:56:28

2 Q. And it has nothing to do with the 01:56:28

3 amount he pays on a per month basis? 01:56:31

4 A. No. It just means his clients are 01:56:31

5 paying an awful lot of money for it because he 01:56:32

6 doesn't have a subscription that allows him to -- 01:56:35

7 when you pull the data over a -- your 01:56:35

8 subscription -- your paid prescription [sic] 01:56:41

9 amount, the price per search is typically much 01:56:42

10 higher. So the ultimate clients, if he's passing 01:56:46

11 that along to them, they're paying a lot more 01:56:50

12 money than if they were going to somebody that had 01:56:54

13 a higher -- was paying for more volume. They'd be 01:56:58

14 paying less per search. 01:57:01

15 Q. Can you tell me what search tools you 01:57:03

16 have access through TLOxp? 01:57:10

17 A. TLOxp? 01:57:14

18 Q. Sure. 01:57:17

19 A. We have access to everything. We have 01:57:18

20 both -- we have both batch access as well as the 01:57:22

21 ability to pull individual reports. The 01:57:25

22 individual reports have all the information that 01:57:28

23 they sell. 01:57:31

24 There's certain limitations, such as 01:57:35

1 determine whether or not the data that he was 02:25:55
2 analyzing was complete and accurate. And I found 02:25:58
3 it very shocking that he didn't think that it was 02:26:01
4 his role to report any errors or to give any 02:26:06
5 feedback or to provide the results for analysis to 02:26:10
6 the person who was giving the opinion on the data. 02:26:15
7 I thought all of that was highly unusual, 02:26:19
8 unscientific and not in keeping with best 02:26:24
9 practices, to say the least. 02:26:30

10 Q. Do you agree or disagree that 02:26:31
11 Mr. Weir's role was to operationalize Mr. Snyder's 02:26:35
12 instructions? 02:26:40

13 A. I don't understand honestly what these 02:26:41
14 two were doing, really. 02:26:43

15 You have Mr. Snyder who is giving the 02:26:45
16 opinion, and Mr. Snyder doesn't know anything 02:26:47
17 about the data and can't pull it because he 02:26:50
18 doesn't even have access to it. 02:26:53

19 And then you have Mr. Weir who backs 02:26:55
20 off in his deposition of providing any kind of 02:26:58
21 opinion about the results and then nobody ever 02:27:00
22 looked at it. 02:27:02

23 I have no idea what these two thought 02:27:03
24 they were doing, but it's highly unusual for -- in 02:27:05

1 number. But it doesn't contain the name of any 02:43:56
2 subsequent carriers, so you're not going to get -- 02:44:04
3 if I ported my cell phone to a landline number, it 02:44:07
4 doesn't -- it's not there. 02:44:11

5 Q. Which numbers in the set of 176 from 02:44:14
6 the sample set were misidentified as cell phones? 02:44:18

7 A. I don't know that that -- that they 02:44:22
8 were. 02:44:25

9 Q. Is there any other area where Mr. Weir, 02:44:26
10 in your view, did not follow Mr. Snyder's 02:44:42
11 instructions? 02:44:45

12 A. Yes. He said that if there is 02:44:45
13 inconsistencies in the data, that you would either 02:44:50
14 throw the number out of the class or you would do 02:44:54
15 an individualized investigation. 02:44:56

16 And the methodology that Mr. Weir chose 02:45:00
17 to select the names associations in TLO ignored 02:45:07
18 the complexity and just simply grabbed the most 02:45:12
19 recent first seen date and called it a day and 02:45:19
20 didn't do anything to look at the dates of the 02:45:24
21 calls, didn't do anything to analyze when there 02:45:26
22 were more than one name associated with a 02:45:29
23 telephone number at the same time. He just 02:45:32
24 ignored all of that and just grabbed the -- the 02:45:36

1 most recent first seen date and made that a class 02:45:41
2 member if that particular name didn't match it 02:45:46
3 with the accountholder name. And that clearly 02:45:51
4 ignores that. 02:45:59

5 And he also talks about first name 02:46:00
6 matches, and Mr. Weir didn't do anything with 02:46:02
7 first names, much to his -- to the detriment of 02:46:05
8 his analysis because we were able to show that 02:46:11
9 there were a number of first name matches based 02:46:12
10 on -- that were actually the same people because 02:46:14
11 women change their name and men change their name 02:46:17
12 and people change their last name. It's not an 02:46:21
13 exotic thing to have happen. 02:46:24

14 Q. Was Mr. Snyder asked at his deposition 02:46:26
15 what he meant by the term "inconsistencies in 02:46:36
16 data"? 02:46:43

17 A. It was an all-day deposition. I can't 02:46:43
18 tell you at this point whether that specific 02:46:44
19 question was asked. 02:46:47

20 Q. Do you know what Mr. Snyder meant when 02:46:47
21 he used the term "inconsistencies in data"? 02:46:51

22 A. I know what I interpreted it to mean. 02:46:54
23 What was inside his head you would have to ask 02:46:58
24 him. 02:47:02

1 My understanding of it was the 02:47:02
2 inconsistencies would be that which -- those of us 02:47:03
3 who work with this day to day and day -- day in 02:47:07
4 and day out note where more than person is being 02:47:08
5 associated with a telephone number at the same 02:47:12
6 time, only one of those people typically picks up 02:47:16
7 an individual telephone call, you know. 02:47:20

8 So if you've got one -- if you've got 02:47:24
9 two, three, four names being associated with a 02:47:29
10 telephone number at the exact same time, that's an 02:47:32
11 inconsistency. 02:47:38

12 Q. Does that mean the answer to my last 02:47:41
13 question is no? 02:47:43

14 A. I have no idea. That's my answer. 02:47:44

15 Q. Do you know what Mr. Snyder meant when 02:47:47
16 he used the term "inconsistent data," yes or no? 02:47:51

17 A. You're, you know, looking for -- I 02:47:55
18 already answered that. I know what I interpreted 02:47:58
19 it to mean. If you want to ask him what he meant, 02:48:00
20 you need to ask him. 02:48:04

21 Q. Because you do not know? 02:48:05

22 A. I understand what I took it to mean. 02:48:07

23 This is -- it's his language; it's his 02:48:14
24 head. You want to know what he thought he meant 02:48:16

1 A. -- because you're going to miss anybody 02:58:07
2 that changes their name. 02:58:07
3 Q. Is there any reason you can think of 02:58:08
4 why the methodology couldn't be modified to 02:58:11
5 account for first names the way you described? 02:58:16
6 A. There are certain errors that they made 02:58:18
7 that could be modified, but the entire methodology 02:58:20
8 fails because of a lot of the compound errors, 02:58:26
9 because of the fact that most of the information 02:58:30
10 is embedded in the account records, and because 02:58:33
11 the TLO data is in and of itself irretrievably 02:58:36
12 unreliable. So you can do some fixing around the 02:58:43
13 edges, but it's essentially putting lipstick on a 02:58:46
14 pig. 02:58:49
15 Q. Is taking a count of first names one of 02:58:49
16 the ways to improve the methodology? 02:58:52
17 A. It certainly would be better than what 02:58:53
18 you had before, but it's not -- you know, you're 02:58:59
19 talking about improving. You can't improve this 02:59:00
20 methodology to make it reliable without doing an 02:59:02
21 individualized analysis of the account records on 02:59:09
22 an account-by-account basis manually. And even 02:59:11
23 then I think trying to use TLO is -- is a fail 02:59:16
24 because that data is so bad. 02:59:19

1 Q. Earlier, a moment ago, you described an 02:59:22
2 issue with the software not catching similarities 02:59:25
3 in names like Nick and Nicholas. 02:59:29

4 A. Uh-huh. 02:59:32

5 Q. Do you -- do you recall when you were 02:59:33
6 sitting in on Mr. Weir's deposition he described 02:59:34
7 how the software that matches names can be 02:59:39
8 adjusted to capture a broader range of names and 02:59:41
9 capture that sort of similarity? Did you hear 02:59:47
10 that testimony? 02:59:50

11 A. I don't recall it. 02:59:50

12 Q. Okay. You don't recall reading that 02:59:52
13 testimony either? 02:59:58

14 A. It's not -- 02:59:58

15 Q. Okay.

16 A. I'm not denying that it's there. I 03:00:01
17 just don't recall it. 03:00:04

18 Q. And sitting here today, do you have any 03:00:04
19 reason to dispute Mr. Weir's testimony that the 03:00:06
20 software he used for name matching could be 03:00:10
21 modified to -- to address the criticism that you 03:00:13
22 just raised about similar names? 03:00:16

23 THE WITNESS: Can you read that back. 03:00:20

24 ///

1 (The reporter read the record as 03:00:34
2 requested.)
3 THE WITNESS: I don't have any 03:00:35
4 knowledge one way or the other. I'm not 03:00:36
5 familiar with the MatchIt program. I don't 03:00:38
6 know how configurable it is. 03:00:40
7 BY MR. SMITH: 03:00:43
8 Q. You've never used the MatchIt program 03:00:44
9 in connection with your work with BRG? 03:00:46
10 A. This is the first time we've used it. 03:00:49
11 It's not one that we've used -- that plaintiff's 03:00:53
12 experts have used in other cases that we've worked 03:00:58
13 on. 03:01:01
14 Q. And you don't consider yourself an 03:01:01
15 expert in that software, correct? 03:01:04
16 A. No, I had to -- I had a Stata expert 03:01:05
17 work on that data at my firm. 03:01:09
18 Q. What was that Stata expert's name? 03:01:11
19 A. Sam. 03:01:20
20 Q. Are there any other examples that you 03:01:21
21 can think of where you believe Mr. Weir failed to 03:01:23
22 follow instructions set forth by Mr. Snyder? 03:01:27
23 (Witness viewed said document.) 03:02:13
24 THE WITNESS: I don't know whether or 03:02:13

1 the same name, Zoe Diaz, correct? 03:27:41

2 A. Yes. 03:27:43

3 Q. And you see the same phone number? 03:27:43

4 A. Yes. 03:27:45

5 Q. And it all matches the data that's in 03:27:45

6 Citibank's data, correct, by phone number -- 03:27:49

7 A. Well, there's --

8 Q. -- and name I mean? 03:27:51

9 A. You only got -- yeah, it's just got 03:27:51

10 those two things. 03:27:53

11 I have no idea whether -- you've got 03:27:55

12 the date first seen, date last seen. You got a 03:27:58

13 phone score. You got all kinds of other stuff. 03:28:01

14 That TLO data is likely wrong, so I'm 03:28:04

15 never going to sign on to anything of that being 03:28:07

16 accurate or correct. Maybe it's accurate in some 03:28:10

17 ways. No way to tell. 03:28:16

18 Q. Do you think it's more likely than not 03:28:18

19 that the Zoe Diaz with the exact same phone number 03:28:20

20 in the TransUnion data shown on the first row of 03:28:23

21 the first page of Exhibit 60 is the same Zoe Diaz 03:28:26

22 identified in Citibank's records? 03:28:32

23 A. I think that's probably more likely 03:28:35

24 true than not, yeah. 03:28:38

1 Q. Okay. Do you know for the 20,000 03:28:45
2 Citibank customers that were sampled by Mr. Weir 03:28:57
3 how many were accurately matched by name and 03:29:00
4 number through TransUnion? 03:29:03

5 A. I -- oh, it was a really high number. 03:29:05
6 It was like 98 percent, something like that, which 03:29:09
7 on the flip side it tells you, if you believe that 03:29:17
8 all of those associations are correct, then that 03:29:22
9 means that most of the phone indicator data that 03:29:26
10 there was a wrong number code is wrong. 03:29:28

11 So -- and I put -- in my report there's 03:29:31
12 a notation that they're pulling data -- it's that 03:29:33
13 feedback loop -- they're pulling data from the 03:29:38
14 same sources that the -- in large part, they're 03:29:41
15 pulling data from bank records that may or may not 03:29:47
16 be dated. There's -- neither is right. 03:29:50

17 Q. What do you mean "neither is right"? 03:29:58

18 A. I mean the TLO data isn't right, 03:30:02
19 that -- I doubt that it's correct that 98 percent 03:30:11
20 of those wrong -- those calls that were indicated 03:30:15
21 as wrong numbers were associated with the 03:30:19
22 accountholders, but there's no way to tell which 03:30:24
23 ones were and which ones weren't because I think 03:30:29
24 they're pulling from some of the same data. 03:30:32

1 Q. Are you aware of any method that could 03:31:56
2 be used to identify business names in Citibank 03:31:59
3 records? 03:32:03

4 A. Am I aware now? No, I'm not currently 03:32:03
5 aware of anything. 03:32:11

6 Q. You didn't investigate that issue 03:32:11
7 before? 03:32:13

8 A. No. It didn't come up. 03:32:13

9 Q. Did you rerun Mr. Weir's analysis, do 03:32:16
10 it yourself from scratch? 03:32:27

11 A. Yes. 03:32:28

12 Q. And how did you do that? 03:32:29

13 A. We followed as much as we could before 03:32:31
14 his deposition, his methodology, but it was very 03:32:36
15 difficult to follow. And we couldn't replicate it 03:32:39
16 entirely. We had issues. 03:32:42

17 Q. At what point -- how far down the 03:32:44
18 process were you able to go before you stopped, 03:32:47
19 pending his deposition? 03:32:52

20 A. I'm trying to remember where we got 03:32:56
21 disparate results. 03:33:00

22 I know that initially when we were 03:33:04
23 looking at the 176, we thought the 120 was an 03:33:08
24 error, that it wasn't purposeful because Mr. Weir 03:33:17

1 didn't disclose in his report that he was relying 03:33:22
2 on the most recent first seen date. 03:33:27

3 So when we got the data for the 176, 03:33:33
4 kind of looked at it and went, wow, this is a huge 03:33:37
5 mistake. And we had just had that in another case 03:33:42
6 where the plaintiffs' expert just made a whopper 03:33:45
7 of a mistake on the analytics, and we kind of 03:33:49
8 assumed that that's what was going on here. 03:33:53

9 And then one of my staffer's came in 03:33:55
10 and said, "Wait a minute. I think I know what's 03:34:01
11 going on here." She showed me. I went like, 03:34:03
12 "Huh, that's an odd way to do this," but it added 03:34:09
13 up. 03:34:13

14 So we pulled -- we pulled our own TLO 03:34:13
15 data and got the batch reports and did that and 03:34:21
16 tried to replicate it. 03:34:24

17 I'm trying to remember where -- where 03:34:25
18 it went off. We couldn't match the numbers 03:34:27
19 entirely. I think it was from the -- I can't 03:34:29
20 recall whether or not it was on the trying to get 03:34:39
21 rid of the cellular numbers versus the landlines, 03:34:41
22 although that's usually not the problem because we 03:34:48
23 usually get the same date -- data. It might have 03:34:49
24 been because of the portability issue, but we 03:34:50

1	couldn't replicate it.	03:34:57
2	Q. You could not replicate it?	03:34:58
3	A. No, we -- I don't know that we ever got	03:35:00
4	to the point where we could replicate it. I know	03:35:02
5	we hadn't replicated it as of the time of the	03:35:04
6	deposition because we had questions that we wanted	03:35:08
7	asked so that we could figure out how to replicate	03:35:11
8	it.	03:35:14
9	They had -- they had more instructions	03:35:14
10	than we usually see because it's -- typically in	03:35:19
11	these cases you get these sort of big general	03:35:23
12	narratives that are not analytic language, so to	03:35:26
13	speak. When you're doing data analytics, it	03:35:33
14	should be completely replicable.	03:35:35
15	And Mr. Weir did not produce the	03:35:38
16	numbers and the data reflecting each set. So	03:35:43
17	here's my 20,000; then I get to 14,000, he didn't	03:35:47
18	produce that. So you can't tell where it's gone	03:35:52
19	wonky. So -- and he didn't produce -- he	03:35:59
20	basically said, "I got these 20,000 and here's 176	03:36:01
21	and good luck getting there." So we had questions	03:36:05
22	that we wanted answered so we could try and figure	03:36:09
23	out where it was going wrong.	03:36:12
24	But at the end day, I think we might	03:36:13

1 have just stopped trying because the point was to 03:36:16
2 look at the 176. And there was an awful lot of 03:36:20
3 work to do there to review the account records. 03:36:25
4 And as you may recall, it was Christmas and New 03:36:28
5 Year's. It was all -- yeah. 03:36:32

6 Q. So I just want to step back and make 03:36:34
7 sure I understood. 03:36:40

8 You followed as much as you could up to 03:36:42
9 a certain point. Then there was some uncertainty 03:36:44
10 about using the first seen date or last seen date. 03:36:47
11 At a certain point, you understood that he was 03:36:50
12 using the most recent first seen date. 03:36:53

13 A. Yeah, we had that before the 03:36:56
14 deposition. 03:37:00

15 Q. And then you resumed your effort to 03:37:00
16 replicate. And at some point after that the 03:37:02
17 process got bogged down again. 03:37:06

18 And what I want to know from you is how 03:37:08
19 far further down the process you got once you 03:37:11
20 understood that he was looking at the -- 03:37:13

21 A. And -- and --

22 Q. -- most recent first seen date. 03:37:16

23 A. And the answer is I'm not sure I 03:37:17
24 actually know the answer to that because it was 03:37:20

1 probably Lanie Smith on my staff who was tasked 03:37:25
2 with doing the SQL work. 03:37:30

3 And I know that at a certain point we 03:37:36
4 just said it's not important. We're -- we were 03:37:38
5 off by -- I can't remember even by how much. But 03:37:43
6 we said it's not important; we can just look at 03:37:47
7 the 176. 03:37:50

8 We know -- he's testified now how he 03:37:52
9 got there, and we understand his articulated 03:37:53
10 process. And it's really about the 176. Let's 03:37:57
11 focus -- let's focus on his articulated class and 03:38:00
12 see what we can find there. The extent to which 03:38:04
13 we couldn't replicate it became really less 03:38:08
14 important. 03:38:12

15 Now, I don't know. It's possible that 03:38:16
16 she continued on and figured it out and it just 03:38:19
17 didn't bubble up to me. It certainly wasn't 03:38:23
18 something that made its way into the report. 03:38:27

19 Q. In terms of how far down the process 03:38:29
20 you got, however far that may have been, do you 03:38:33
21 recall roughly how many telephone numbers you had 03:38:37
22 sort of funneled down to, so to speak? 03:38:41

23 A. I don't recall. I'd be speculating at 03:38:44
24 this point. 03:38:47

1 deposition he gave his cell phone number? 03:39:55

2 A. He gave his cell phone -- you mean his 03:39:57

3 cell phone number? 03:40:00

4 Q. His cell phone number. 03:40:01

5 A. Yeah, there was some discussion of his 03:40:02

6 cell phone numbers. 03:40:07

7 Q. Did you ever run that number through 03:40:07

8 TLOxp? 03:40:09

9 A. We ran Mr. Weir's name, I believe. And 03:40:09

10 so anything that would have been associated with 03:40:11

11 him would have been on that TLO report, which I 03:40:13

12 believe was a -- an exhibit. 03:40:15

13 Q. Okay. So you ran his name prior to the 03:40:19

14 deposition, but after the deposition of Mr. Weir 03:40:20

15 you didn't run any additional reports? 03:40:23

16 A. No, uh-uh. 03:40:25

17 Q. And is that because you believed you 03:40:27

18 would not get any additional information other 03:40:36

19 than what you had already obtained from the first 03:40:38

20 report? 03:40:40

21 A. I didn't care. 03:40:41

22 Q. Okay. 03:40:43

23 A. I mean, it just wasn't relevant. We -- 03:40:44

24 we had the point made, which was Mr. Weir's data 03:40:46

1 I presume that these -- I know that the 03:50:33
2 red ones may have been probably the last ones that 03:50:36
3 we were going through or something like here's one 03:50:38
4 that we really need to -- this may be the only one 03:50:40
5 left. I think that may be it. And then we did 03:50:42
6 some additional research and were able to find 03:50:46
7 what we did. 03:50:47
8 Q. Why do you make that assumption about 03:50:47
9 the red line? 03:50:50
10 A. Because somebody may have told me that. 03:50:51
11 I'm thinking in my head that somebody told me 03:50:58
12 that. 03:51:00
13 Q. What about the beige line? 03:51:00
14 A. I don't know. 03:51:03
15 Q. Don't know. 03:51:03
16 MR. SMITH: This one is 62 and that one 03:52:30
17 is 63. 03:52:32
18 (Daley Exhibits 62 and 63 was 03:52:35
19 marked for identification.) 03:52:36
20 BY MR. SMITH: 03:52:36
21 Q. So you've just been handed two 03:52:37
22 documents. One is marked Exhibit 62 and the other 03:52:40
23 is marked -- 03:52:43
24 A. Oh, yeah. 03:52:43

1 Q. -- Exhibit 63. They look very similar. 03:52:43
2 I will just note for the record, 03:52:49
3 Exhibit 62 comes from a native file that was 03:52:52
4 produced with the file name Citi_Revitch176151. 03:52:55
5 And Exhibit 63 had a file name ending in 153. 03:53:02
6 And do you recognize the documents that 03:53:11
7 have been marked as Exhibit 62 and 63? 03:53:14
8 A. Yes. 03:53:17
9 Q. What are they? 03:53:18
10 A. These refer to the same issue that I 03:53:18
11 brought up right at the beginning of the 03:53:21
12 deposition. I'm trying to look right now for the 03:53:23
13 paragraph. But it had to do with the analysis we 03:53:25
14 did about how many matches there were to a single 03:53:30
15 match on LexisNexis versus TLO. I'm trying to see 03:53:35
16 which the single name matches. 03:53:40
17 If you give me a second, I can pull the 03:53:43
18 right paragraph number. But I referenced it when 03:53:46
19 we first started. 03:53:57
20 (Witness viewed said document.) 03:55:08
21 THE WITNESS: Sorry, I'm just having a 03:55:10
22 hard time finding it. If you... 03:55:12
23 (Witness viewed said document.) 03:56:31
24 THE WITNESS: I found it, 156. 03:56:31

1 BY MR. SMITH: 03:56:34

2 Q. I'm sorry? 03:56:35

3 A. Paragraph one fifty -- I'm sorry. Is 03:56:36

4 it 156 or is it 157? 03:56:37

5 157. 03:56:41

6 The -- the one marked Exhibit 62 is the 03:56:46

7 workpaper that supports the number of -- the 03:56:53

8 number 29 with a single name association. And as 03:56:56

9 you may recall earlier today, I said this was done 03:57:01

10 without reference to the dates of the calls. 03:57:05

11 And when you put that number in, when 03:57:09

12 you take that into consideration, the number 03:57:12

13 becomes 70 as opposed to 29. And this is the 03:57:16

14 workpaper for that, and I included both of them. 03:57:20

15 Q. I see. 03:57:23

16 So are the numbers in Exhibit 62 and 63 03:57:44

17 derived from the 176 numbers that Mr. Weir -- 03:57:48

18 A. Yes. 03:57:53

19 Q. -- produced? 03:57:53

20 Okay. 03:57:54

21 A. It's just a comparison to LexisNexis 03:57:59

22 what those results would be. 03:58:03

23 Q. So the first number on -- I'm looking 03:58:17

24 at the top of Exhibit 63. The very first row 03:58:22

1 you've got a phone number and name associated with 03:58:26
2 a number, Carlos Davila or Davila. 03:58:29
3 Do you see that? 03:58:33
4 A. Yeah. 03:58:34
5 Q. Did you make any determination whether 03:58:37
6 Mr. Davila received a wrong number phone call from 03:58:40
7 Citibank? 03:58:45
8 A. Well, the report talks about the fact 03:58:45
9 that there is a purported number of 176 potential 03:58:49
10 class members or numbers. 03:58:56
11 And what I did was go through the 03:59:00
12 database information that was pulled and my own 03:59:05
13 unique additional pulls and show that those names 03:59:09
14 are the same names as the accountholders in almost 03:59:14
15 every set of circumstances. There was some where 03:59:17
16 there was an address match, et cetera, but they 03:59:21
17 basically relate back to the accountholders. 03:59:24
18 And pursuant to Mr. Snyder's 03:59:27
19 methodology, any -- any matches are not class 03:59:29
20 members. And so, therefore, according to your own 03:59:39
21 class identification methodology name matching, 03:59:41
22 they aren't class members. 03:59:47
23 Q. That wasn't my question, though. 03:59:49
24 A. Well, I understand, but that's what I 03:59:51

1 did. 03:59:53

2 Q. But my question is: Did you make the 03:59:55

3 determination whether or not Carlos Davila 03:59:56

4 received a wrong number call from Citibank? 03:59:59

5 A. Nobody made that determination. I 04:00:02

6 don't even think your own experts have said that. 04:00:05

7 I'm here to analyze what your -- your 04:00:08

8 experts are purporting as a class identification 04:00:13

9 methodology, and I don't believe either of your 04:00:16

10 experts are willing to say that anybody at any 04:00:19

11 particular time got a wrong number call. They're 04:00:22

12 just saying here's a way we can get some names 04:00:25

13 that may have. 04:00:29

14 Q. A moment ago when you said nobody made 04:00:30

15 that determination, were you referring just to 04:00:32

16 Carlos Davila specifically or all the names on -- 04:00:35

17 itemized on Exhibit 63? 04:00:42

18 A. I think all of them. There's a section 04:00:42

19 in my report where I believe both -- neither of 04:00:44

20 your experts are willing to -- certainly Mr. Weir 04:00:49

21 isn't saying that anybody particularly got a wrong 04:00:53

22 number call. 04:00:55

23 This is just simply your -- your whole 04:00:58

24 proposal to identify these class members is to 04:01:03

1 name match or to exclude names from the 04:01:08
2 accountholders. That's -- that's as far as I 04:01:12
3 understand you're going, not that anybody in 04:01:15
4 particular got a wrong number call at any given 04:01:18
5 time. Nobody can tell who picked up a phone 04:01:22
6 unless you get into the account records. 04:01:26

7 Q. Looking again at Exhibit 63, the first 04:01:30
8 row -- I'm sorry, the first column is labeled "BRG 04:02:07
9 Matched Numbers," and then there are either 1s or 04:02:14
10 zeros that follow. 04:02:20

11 What do the 1s or zeros signify? 04:02:21

12 A. I'm not sure I know if there are -- I 04:02:26
13 have to count up to see if they come up to 29 or 04:02:41
14 70. 04:02:44

15 Usually that's the counter for the yes 04:02:48
16 or no of the analytic, a 1 equals yes and a zero 04:02:51
17 equals no, when you have the total at the bottom 04:02:56
18 typically. 04:03:03

19 My guess would be that if you counted 04:03:07
20 all of these up, you would probably get -- for 04:03:08
21 this one, for 63, you would probably get 70. 04:03:12

22 Are these the same on either side? BRG 04:03:24
23 match on the far right. 04:03:28

24 This particular workpaper is not one 04:03:31

1 communication with a customer service rep, but the 04:33:08
2 phone utility database did not keep the historic. 04:33:11
3 As soon as there was a new indicator code, it 04:33:18
4 wrote over the old Phone Indicator Code. 04:33:21
5 Now, that information is available in 04:33:25
6 the account notes, embedded in it. Historically 04:33:26
7 you can go through and read the account notes and 04:33:30
8 you can find those old indicator codes, but it 04:33:34
9 wasn't maintained historically in an automated 04:33:39
10 database in a -- until November 2017. 04:33:42
11 Q. So if someone -- if an agent updated a 04:33:47
12 code in the account notes, would that code 04:33:54
13 information end up in another database? 04:34:01
14 A. When? 04:34:05
15 Q. At the moment the change was made. 04:34:05
16 A. But what -- when? Date? 04:34:07
17 Q. Let's say prior than November -- prior 04:34:11
18 to November 2017. 04:34:12
19 A. It would be overwritten. So the 04:34:13
20 indicator code is an instruction, right? It 04:34:18
21 instructs the dialer "do this," "don't do this" 04:34:21
22 under these circumstances. The dialer has this 04:34:23
23 data -- this information about how to treat every 04:34:26
24 particular number that gets uploaded with it. 04:34:29

1 Q. And how does the information get 04:34:32
2 transmitted from the account notes ultimately to 04:34:34
3 the dialer pre-November 2017? 04:34:38

4 A. I think it's -- I believe that it's 04:34:40
5 part of the -- it's part of the operations where 04:34:43
6 the account information is transferred. I mean, I 04:34:48
7 think the first thing they do is say, "Can we 04:34:53
8 dial?" So that's an exclusion, right? 04:34:56

9 So when they're trying to decide what 04:34:59
10 numbers are going to be uploaded to the dialer 04:35:01
11 tomorrow -- and Mr. Kalat has studied this more 04:35:04
12 carefully than have I, so I would defer to him. 04:35:08
13 But it's an exclusion so that those numbers are -- 04:35:11
14 if it's a bad number or if it's a no consent, it 04:35:15
15 won't be sent to the predictive, if there's a 04:35:19
16 predictive dialer, or if there's a -- whatever 04:35:22
17 methodology that's going to be used, it won't -- 04:35:24
18 the exclusions apply and it's not sent. 04:35:25

19 Q. Still focused prior to November 2017, 04:35:30
20 is it the case that there was records of a 04:35:35
21 consent -- the current consent notation, B, N, V, 04:35:40
22 whatever the code may be, but there was just no 04:35:47
23 records of historical changes? 04:35:51

24 MR. SASSO: Object to the form. 04:35:53

1 THE WITNESS: I'm sorry. I didn't 04:35:54
2 follow. 04:35:55
3 BY MR. SMITH: 04:35:56
4 Q. Okay. 04:35:56
5 A. My fault. 04:35:56
6 Q. Let me put this away. 04:35:57
7 Let's say the date is January 1st, 04:35:59
8 2016, and you've got a given number. It doesn't 04:36:02
9 matter what number, some number associated with a 04:36:07
10 Citibank customer. And the consent code is either 04:36:11
11 N or B for that particular number on January 1st, 04:36:24
12 2016. 04:36:35
13 Is there some database that holds that 04:36:36
14 data that gets -- that allows that data to be 04:36:39
15 transferred or transmitted to the dialer? 04:36:44
16 A. My understanding is that that is 04:36:46
17 included in the account notes in the system of 04:36:51
18 record, but it is overwritten over time as it 04:36:54
19 changes. 04:36:58
20 And the only place where the changes in 04:36:59
21 an audit log exist is the Contact Utilities 04:37:03
22 Database and only from November 2017 going forward 04:37:07
23 and that there is not a queryable, automated way 04:37:10
24 to find the historical phone indicator data for 04:37:15

1 You can put that away. You were asked earlier if 04:40:50
2 plaintiffs' expert modified the methodology to 04:40:53
3 focus on wrong number account information in the 04:40:56
4 account level documents instead of the database 04:40:58
5 and the codes, would that be, in your view, a more 04:41:01
6 reliable method of identifying class members. 04:41:05
7 Do you recall that? 04:41:09
8 A. Yes. 04:41:09
9 Q. So you and your team reviewed account 04:41:10
10 level documents, correct? 04:41:13
11 A. Yes, we did. 04:41:14
12 Q. And do you have an opinion on the 04:41:14
13 difficulty or viability of reviewing those account 04:41:17
14 records to do the type of analysis that was 04:41:21
15 proposed here in the plaintiffs' methodology? 04:41:24
16 MR. SMITH: Objection, compound. 04:41:28
17 THE WITNESS: I do. 04:41:30
18 BY MR. SASSO: 04:41:31
19 Q. And what's that? 04:41:31
20 A. There is not a way to review those 04:41:32
21 accounts in any kind of an automated fashion. The 04:41:37
22 only way that you can tease the information that's 04:41:43
23 relevant out of those account records is by a 04:41:49
24 manual review. 04:41:50

CERTIFICATE
OF
CERTIFIED SHORTHAND REPORTER

I, JANET L. ROBBINS, a Certified
Shorthand Reporter of the State of Illinois, CSR
License No. 84-2207, do hereby certify:

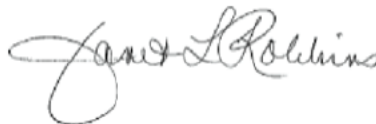
That previous to the commencement of
the examination of the witness, the witness was
duly sworn to testify the whole truth concerning
the matters herein;

That the foregoing deposition
transcript was stenographically reported by me and
was thereafter reduced to typewriting under my
personal direction and constitutes a true and
accurate record of the testimony given and the
proceedings had at the aforesaid deposition;

That the said deposition was taken
before me at the time and place specified;

That I am not a relative or employee or
attorney or counsel for any of the parties herein,
nor a relative or employee of such attorney or
counsel for any of the parties hereto, nor am I
interested directly or indirectly in the outcome
of this action.

IN WITNESS WHEREOF, I do set my hand and
affix my seal this 30th day of January, 2019.



JANET L. ROBBINS, CSR, RPR
CSR License No. 84-2207

IN UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

JEREMIAH REVITCH, on behalf)
of himself and all others)
similarly situated,)
Plaintiff,)
vs.) Case No. 3:17-cv-06907-WHA
CITIBANK, N.A.,)
Defendant.)

DEPOSITION OF RANDALL SNYDER

Taken at SLS Las Vegas
2535 South Las Vegas Boulevard
Studio 4, Grand Tower
Las Vegas, Nevada 89109

Sunday, December 23, 2018
9:02 a.m.

Reported By: Gale Salerno, RMR, CCR No. 542
Job No. 3177667
Pages 1- 219

1 MR. SMITH: Objection. Misstates the
2 testimony. Calls for a legal conclusion.

3 THE WITNESS: No. What I did was I applied
4 the concept of wrong party number calls made with an
5 automatic dialing system. And more specifically, to
6 cell phone numbers, which I understand is what the
7 TCPA provides for. And based on that, those general
8 factors, that's how I created the methodology in my
9 report.

10 BY MR. SASSO:

11 Q. And were you asked to take into account
12 whether calls were made to customers versus
13 noncustomers?

14 A. Yes.

15 Q. And how did you make the determination
16 whether a particular call was to a customer or
17 noncustomer?

18 A. Well, in the methodology, if we determine
19 that a number was called that is not -- or that was a
20 wrong party number, which is indicated in the call
21 records, then the further step of obtaining contact
22 information, if the contact information we obtained
23 from one of the data processors matches the name on
24 the account record or is closely matched, then that
25 person is not a member of the class.

1 However, if you obtain contact information
2 associated with a phone number, and the date that --
3 usually these data processors will provide a date
4 when -- in their system, that information to their --
5 to the data's best representation, is the date when
6 that first occurred.

7 You can be very sure that that was the
8 wrong -- that was the name and contact information of
9 the wrong number that was called.

10 Q. You're able to be very sure that's the
11 wrong number called without doing any
12 cross-referencing, for example, to another data
13 source?

14 A. In my opinion, what we did in the sample or
15 what Colin performed in the sample data is highly
16 reliable.

17 However, if it's deemed to not be reliable
18 enough, for instance -- again, this is an adaptable
19 methodology -- then you can further cross-reference
20 against other data sources.

21 So I have no problem with simply using
22 Transunion. But, again, it's an open methodology
23 that can be refined if needed.

24 Q. Did you have any input in defining the
25 class as it was ultimately defined in plaintiff's

1 Q. Is it your understanding that the numbers
2 that Citibank was calling here were numbers that they
3 intended to call their customers at?

4 A. Well, I can't -- I can't testify to what
5 Citibank's intentions were or are.

6 Q. Is it your understanding the calls were
7 made here for collection purposes to reach Citibank
8 customers?

9 A. Generally, yes. And we have evidence
10 that -- I agree that certainly that's their goal in
11 making these calls, but we have evidence that they
12 called wrong numbers.

13 Q. You have evidence that they called numbers
14 that you claim were not associated with the customer?

15 A. No. They called numbers that Citibank
16 claims were not associated with the customer because
17 they're the ones that testified that they marked
18 things as wrong numbers, and those are considered to
19 be wrong numbers when they marked them as such.

20 Q. And then you also remember reading the
21 testimony where they said that wrong numbers may get
22 marked as wrong numbers, but then later changed when
23 the customer says they, in fact, were not a wrong
24 number?

25 A. That's not part of my analysis. However,

1 we did take into account if a record was marked as a
2 wrong number on a certain date, and then marked as
3 not and as a good number at a later date, we filter
4 out those records. So they're not included in the
5 class.

6 Q. But the point being, though, so even in
7 that scenario, if you have a phone number that's
8 coded as a wrong number, and then it changes, the
9 coding -- the original coding as a wrong number
10 doesn't necessarily mean that it's actually a wrong
11 number, correct?

12 A. Well, I can't testify to the thoughts and
13 underlying reasons of Citibank personnel. All I know
14 is what's in the records, and if it was a wrong
15 number on an earlier date, but then deemed to not be
16 at a later date, and we have evidence of that, which
17 we do in some records, we filter them out; they're
18 not part of the class.

19 Q. We talked earlier about sequential and --
20 let me make sure I got this right. You were told by
21 counsel that sequential means one following another.

22 So where in the dialer documentation does
23 it define what sequential means?

24 A. It doesn't. I don't know why it would. It
25 doesn't.

1 was a wrong party number, and we have deposition
2 testimony that when they -- I think it was
3 Ms. Malahey (phonetic), when a call party says it was
4 a wrong number, they consider that a wrong number and
5 mark it as such.

6 So whatever they discuss that, if they
7 talked about the weather or talked about loans or
8 asked other questions, the fundamental piece of data
9 that we're using is a wrong party indication that's
10 been testified to actually mean Citibank considered
11 that a wrong number.

12 Q. And you've read Ms. Malahey's (phonetic)
13 testimony where she then said that wrong number codes
14 are subsequently changed when customers indicate that
15 the wrong code was actually inaccurate?

16 A. Absolutely. We've already discussed that,
17 and we actually eliminate them from the putative
18 class membership if it turns out that Citibank
19 discovers that a wrong number isn't actually a wrong
20 number.

21 We compare the dates, and we can easily
22 filter those out of the putative class. In fact, I
23 testified to that in my declaration.

24 Q. Is there anything about the actual
25 day-to-day usage of the Aspect system by Citibank

1 Q. Well, then why don't we make it clear. So
2 for step one in paragraph 74, you're looking for the
3 change from the -- I think you said it was -- make
4 sure I got it right -- from IBS we're looking from
5 the change from -- here, J to H, and then for FDR
6 you're looking for B to N.

7 A. Correct.

8 Q. Right?

9 Okay. So then the phone indicator data
10 that has the indicators and the dates of the changes,
11 when you -- you reviewed that data, correct?

12 A. Yes.

13 Q. Did you review the entire data set, or just
14 a sample piece of it?

15 A. Just a sample. My understanding is there's
16 hundreds of thousands or millions of records, and
17 based on deposition testimony, and what these
18 indicators mean, we can be very sure that those
19 indicators would be consistent as applied to all the
20 records.

21 Q. Did you observe in that data that it did
22 not contain any records of consent flags for any
23 dates prior to November 2017?

24 A. I don't recall if we did that step or not.
25 But certainly if that's a required step, as I said

1 before, this is an overall methodology that's very
2 adaptable.

3 So we can always filter for additional
4 information if need be. Or for instance, we're
5 supplying information that there's another indicator
6 that needs to be filtered. We could certainly
7 perform that step as well.

8 Q. So let me just clarify. You don't recall
9 observing that there were no records of consent flags
10 for dates prior to November 2017?

11 A. No. As far as I know, and which is
12 immaterial to this methodology, the date ranges for
13 applying this methodology could be any date ranges we
14 choose.

15 So this is the overall methodology, and if
16 we should only look at records in a certain date
17 range, that's certainly something we would add to
18 this.

19 Q. So can the phone indicator data show
20 whether there was a consent flag on a number as of
21 October 2017?

22 A. Can it? Certainly it can.

23 Q. Do you know -- did you observe in the data
24 in this case whether it did show any indicator,
25 consent indicator codes as of October 2017?

1 that number before and after that date, are you
2 including in your class the phone calls that come
3 prior to the date change, or are you including only
4 the calls that come from November 2017 to present?

5 A. Regardless of whether it's November 2017 or
6 any other date, we're only counting calls after the
7 wrong party number indication is indicated. And it
8 hasn't changed back at any period of time after that.

9 So we looked at the wrong party number
10 indication, and all automatically dialed calls after
11 that date are counted.

12 Now, whatever cut-off date there is, based
13 on availability of data, or what the class period is,
14 is immaterial to that basic methodology.

15 Q. But you have to start from the last change
16 date, has to be your starting point?

17 A. Yes. You have to start when Citibank knew
18 it was a wrong number.

19 Q. Okay. Step 2 in paragraph 75, you say that
20 this step is more important due to abundance of
21 caution, and that's because some wrong codes, wrong
22 number codes, are applied to numbers that may not
23 actually be wrong numbers.

24 A. That's right. We're trying to eliminate
25 false positives. So that even if at some point in

1 time it was considered a wrong party, but at some
2 later date it was considered not to be a wrong party,
3 we just don't count it at all.

4 Q. And the phone indicators are a reflection
5 of sort of the ultimate process of what happened when
6 the agent spoke to somebody at that time?

7 A. Yeah. And I don't know if it was that
8 specific behavior or what I gleaned from that
9 information is that that's -- these are the times the
10 calls were made after Citibank -- it was understood
11 by Citibank that this was a wrong party number.

12 Now, what the call center's behavior is or
13 whatever is immaterial to this objective analysis.
14 So we just look at the wrong party number.

15 We know from deposition testimony that that
16 really means they consider it a wrong number. And
17 then automatic calls are still made after that point
18 in time.

19 Q. And you're not giving an opinion as to --
20 if we wanted to understand what actually happened
21 that led to the phone indicator changing to a wrong
22 number, you're not providing an opinion on how that
23 can be done to understand what led to that change?

24 A. That's right. I'm only objectively looking
25 at what the indicator means based on deposition

1 we're pretty sure that's a wrong party call.

2 So if the name and address information are
3 completely different from the name on the account
4 record, and it's indicated as a wrong party number,
5 and calls are continually made to that number after
6 Citibank considered it a wrong number, the analysis
7 of obtaining contact information could tell us
8 whether that name is the name on the account or not.
9 And if it turns out that that name was on the
10 account, we can eliminate that. That's something we
11 could exclude.

12 So we're really looking at people that
13 appear to have no relationship at all to the account
14 record where, you know, automated calls were made to
15 a wrong number.

16 So there's an extra confirmation step in
17 there when we obtain contact information.

18 Q. I'm sorry, is it your testimony that the
19 data from Citibank includes the address information
20 for each of these accounts?

21 A. No. But we look at the name, primarily.

22 Q. So when you said that you compare the
23 address or name, that was not accurate?

24 A. Yeah. It's really name. Thank you for --
25 thank you for noticing that I misspoke. We're really

1 looking at the name information, that's right.

2 But there's no reason why we couldn't look
3 at address information and compare that as well. And
4 we could certainly -- again, this is an adaptable
5 methodology. If there's additional filtering that
6 needs to be made or comparisons that need to be made,
7 they certainly can be.

8 Q. So step four, paragraph 77, so what process
9 is used to scrub four cell phones? Strike that.

10 Let me ask this step four, that's the
11 process where you then try to identify which of the
12 phone numbers are actually cell phones versus land
13 lines?

14 A. Correct.

15 Q. So explain to me the process that takes
16 place there.

17 A. It's all written out in a separate section
18 of my report called identifying cellular telephone
19 numbers.

20 It's actually very simple to do. It comes
21 from the origination of the ability to port telephone
22 numbers from November 2013.

23 So there's a main realtime database and
24 offline database, and that data is sold to
25 wholesalers that then provide the service.

1 here or there.

2 But over all, it's very reliable that
3 almost all of that data is correct.

4 Q. So if the TLO data reports back a name,
5 number combination where there are multiple names
6 associated with a single phone number, and there is a
7 single date associated with one name, but a broader
8 range of dates associated with a different name,
9 which one of those is more reliable?

10 A. I don't have that experience using data
11 with that hypothetical. All I can say is if you get
12 data that looks erroneous for some reason, you can
13 always cross-reference that against another data
14 processor, or you in our case, you can eliminate it
15 from the class if you're not exactly sure.

16 But I know just as a good practice in cases
17 like we have here, we're only trying to use data that
18 we're very sure of.

19 So any conflicting data or any erroneous
20 data that we can see is erroneous or conflicting, we
21 typically just don't count, or we try and confirm it
22 in other ways.

23 Q. In terms of how TLO is used, are they -- is
24 Mr. Weir performing sort of individual name/number
25 searches, or is he doing a batch search?

1 be a business number. So it's not associated with an
2 individual, it would be a member of the class. I'm
3 sure he's aware of that, but you would have to ask
4 him specifically.

5 Q. When you say you exclude business numbers,
6 you exclude business numbers if the defendant's
7 records showed it associated with a business number,
8 or if the TLO reports back a business number?

9 A. Either one. What you want to do is try to
10 exclude numbers associated business -- as a business
11 would not be a class member.

12 So if there's a determination on either the
13 account record from Citibank or from Transunion or
14 another data processor's database that comes back as
15 a business name and not an individual name, that
16 certainly can be excluded as not being a member of
17 the class.

18 I'm not aware of that situation happening
19 here, but Colin may be if you question him about
20 that.

21 Q. And then how does the analysis account for
22 someone who is using their maiden name, for example?

23 A. There's usually a high likelihood, if you
24 get name and address matching, and the only
25 difference is the last name, for instance, it's easy

1 to just to be conservative, eliminate them from the
2 class.

3 So if we have potentially a female that had
4 a maiden name in the Citibank account records, but we
5 have the same name with a different last name, and
6 maybe we query for address information, it might
7 match the address information. We could do that
8 step, too. That's in the account records. We could
9 be very sure that that's probably the same person.

10 And again, to be conservative, we try and
11 eliminate them from the class.

12 Q. And do you know if that was done here to
13 take the additional step to query for address
14 information to eliminate people that may have a
15 similar first name but a different last name?

16 A. I'm not sure. I don't think it was done
17 here. But again, as I said, the methodology we put
18 forth allows for additional filtering confirmation in
19 order to use a software process to determine class
20 membership.

21 So the idea is to try and eliminate false
22 positives as much as possible.

23 Q. So do you think we need to do those
24 additional steps before we can get to what you guys
25 have coined a final list of wrong numbers, or do we

1 Same for last names, same with first names.

2 So the idea is that we want to be very sure
3 that truly this wrong party number really did go to a
4 different person than the name on the account record.

5 Q. So with respect to what was done in this
6 case, is that similarity score analysis, is that the
7 only piece that was done with respect to the TLO
8 data? Are you aware if Mr. Weir used the TLO data in
9 any other respects to identify class members?

10 A. I don't know. You would have to ask him.

11 Q. And do you know if the TLO data provides a
12 first seen date of a name association with a phone
13 number?

14 A. I've seen first seen date in lots of these
15 data processors. I believe it does, but again, Colin
16 would be more of the expert to answer that question.

17 Q. And do you know if the TLO data provides a
18 last seen date?

19 A. It may. Again, Colin is an expert in the
20 usage of this data and the data that's returned based
21 on the queries he makes, so I would defer to him.

22 Q. So in this case, are you providing any
23 opinion upon the reliability of a first seen date
24 versus a last seen date in the TLO data?

25 A. No. I'm providing an opinion on the

1 general methodology that can be used to identify or
2 contact potential class members.

3 Q. So do you have any opinion on whether a
4 first seen date or a last seen date is more reliable
5 for identifying potential class members?

6 A. It depends what data we're getting back,
7 what those dates are associated with, the dates in
8 the call log records for when the automatic calls
9 were made. All I can say is that an example of a
10 member who would be in the class is somebody that's
11 indicated by Citibank that they know is a wrong
12 number. There's no additional indications.
13 Automatic calls were made after that number was
14 marked as a wrong number, and we come up with a name
15 through one of the data processors that is completely
16 different than the name on the accounts.

17 That's the general methodology I'm opining
18 on. Colin is an expert in all of the individual
19 details of performing the numerical analysis and
20 implementing this basic methodology.

21 Q. So do you have any opinion on whether or
22 not a person -- if a TLO report provides two names
23 associated with a phone number, and one name has an
24 earlier first seen date, and the latest last seen
25 date, so there's a range of dates that TLO provides

CERTIFICATE OF REPORTER

I, the undersigned, a Certified Shorthand Reporter of the State of Nevada, do hereby certify:

That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were duly sworn; that a record of the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; that the foregoing transcript is a true record of the testimony given to the best of my ability.

Further, that before completion of the proceedings, review of the transcript [X] was [] was not requested pursuant to NRCP 30(e).

I further certify I am neither financially interested in the action, nor a relative or employee of any attorney or party to this action.

IN WITNESS WHEREOF, I have this date subscribed my name.

Dated: December 24, 2018



GALE SALERNO, RMR, CCR #542

1 UNITED STATES DISTRICT COURT
2 NORTHERN DISTRICT OF CALIFORNIA
3 Case No. 3:17-CV-06907-WHA

4 -----x
5 JEREMIAH REVITCH, on Behalf of
Himself and all Others

6 Similarly Situated,
7 Plaintiff,

8
9 - against -

10
11 CITIBANK, N.A.,
12 Defendant.

-----x
13 December 28, 2018
9:28 a.m.

14
15 ** C O N F I D E N T I A L **

16 Deposition of COLIN B. WEIR, taken by
17 Defendant, pursuant to Notice, held at the
18 offices of Ballard Spahr LLP, 1675
19 Broadway, New York, New York, before Todd
20 DeSimone, a Registered Professional
21 Reporter and Notary Public of the State of
22 New York.

23
24
25 Pages 1 - 380

Page 1

1 A. Again, I'm offering an opinion
2 about the general reliability of the data
3 and that my research would show that the
4 data is accurate in the sense that we are
5 generating matches, expected matches
6 between the Citibank data and the
7 TransUnion data, but I would not offer the
8 opinion that the TransUnion data is
9 perfect.

10 Q. What percentage accuracy would
11 you attribute to the TransUnion data?

12 A. I haven't been asked to
13 identify that precisely, but in other
14 situations where I have looked at similar
15 data, we wind up with situations where I
16 think in greater than 90 percent of
17 contexts the information is shown to be
18 definitively accurate, and then there is
19 additional data where, for example, it
20 shows a new customary user of the phone, it
21 is very likely that the majority of that
22 data is also accurate.

23 Q. You said in certain instances
24 90 percent of the time the data is shown to
25 be definitively accurate?

1 A. Correct.

2 Q. How?

3 A. Again, we have an expectation
4 from a company's record that a number would
5 be associated with a person and then that
6 turns out to be the case in the TLOxp data.

7 Q. Have you personally performed
8 any searches to definitively determine that
9 90 percent accuracy rate?

10 A. Not in this case, but in
11 general with this type of data.

12 Q. When?

13 A. I think the last time I would
14 have done it would have been in the last
15 month or so.

16 Q. For who?

17 A. A client in another case.

18 Q. A TCPA case?

19 A. Yes.

20 Q. And you were asked in that case
21 to check to see whether or not the data was
22 right?

23 A. No. That was just information
24 that I gleaned through the analysis.

25 Q. What information did you glean

1 A. Well, I didn't decide myself it
2 was a mobile number. I decided that the
3 carrier that TLO affiliated with that
4 number was a mobile carrier.

5 Q. How many phone numbers of the
6 20,000 that you submitted came back with no
7 information at all?

8 A. I don't have a precise
9 recollection of that.

10 Q. How many came back as
11 landlines?

12 A. Something less than 9,000 of
13 them.

14 Q. Are you aware of the fact that
15 of the 20,000 numbers you submitted, TLO
16 returned results only for 13,344?

17 A. I'm not aware.

18 Q. Do you have any reason to
19 dispute the fact that of the 20,000 you
20 submitted only results were returned for
21 13,344?

22 A. I would have to check, but I
23 don't have any basis as I sit here today to
24 argue with you.

25 Q. Do you have any reason to

1 dispute the fact that TLO didn't return any
2 results at all for 6,656 of the numbers you
3 submitted?

4 A. Again, not without checking
5 that data.

6 Q. Do you think that's a
7 significant percentage of 20,000?

8 MR. MARCHESI: Objection to
9 form.

10 A. Again, I hadn't given it any
11 consideration.

12 Q. You testified that you believed
13 TLO to be generally accurate, correct?

14 A. Correct.

15 Q. What do you do when there is no
16 data at all?

17 A. Those numbers are omitted from
18 the analysis in a conservative way.

19 Q. Does the fact that TLO doesn't
20 have data for a third of the numbers that
21 you submitted cause you to question at all
22 the accuracy of the data that they have?

23 A. No.

24 Q. You still believe it is
25 accurate even though they can't return

1 Q. If they did provide you with
2 names, what would you do?

3 A. Run them through my matching
4 algorithm.

5 Q. What is your matching
6 algorithm?

7 A. It is part of this data program
8 known as Matchit, which does a bigram
9 analysis of two comparable pieces of text
10 and returns a Jaccard similarity score.

11 Q. What would you do with that
12 information?

13 A. I would then set a threshold
14 where if the similarity score was above a
15 certain amount, I would deem that as a
16 match of the name, and if it was below a
17 certain amount, I would deem it as a
18 mismatch for that name.

19 Q. What were the amounts that you
20 set?

21 A. Based upon my prior experience
22 doing this type of matching, I used a
23 threshold of 0.5. The Jaccard score ranges
24 basically like a baseball batting average,
25 from 0 to 1, and you would never expect

1 matches to all be 1, because what we are
2 trying to do is find, for example, like if
3 you have the middle initial tacked on, we
4 wouldn't want that to kick out a particular
5 name.

6 So I set the score at 0.5. The
7 method is adaptable, so you could set that
8 at 0.4, if you wanted to be even more
9 conservative than I have already been.

10 Q. What happens if there is
11 multiple names associated with the phone
12 number?

13 A. Again, each name is evaluated,
14 and then per the date range discussion we
15 had today, I would look for the latest
16 match and the latest mismatch, and those, I
17 have described them as maximum match dates
18 and maximum mismatch dates, are then fed
19 back in to check the date range on the
20 calls.

21 Q. Do you perform the -- what did
22 you call the name search again? I'm sorry.

23 A. Matchit.

24 Q. Did you perform the Matchit
25 search for every name that returned

1 associated with the phone number?

2 A. So we would have -- I think
3 that's right. We would have paired the
4 Citibank data with the TransUnion data and
5 taken the name from Citibank and then
6 compared it with all of the names returned
7 from TransUnion.

8 Q. And then after you compared it
9 with the names, you would perform your
10 first-seen date analysis?

11 A. Correct. Once we had the
12 matching status, I would generate those
13 maximum first-seen dates.

14 Q. The Matchit search that you
15 performed, did it check last names only?

16 A. So it compared both the first
17 name and last name for one check and just
18 the last name only for a second check, and
19 either of those that appeared as a match
20 would be considered a match for my
21 analysis.

22 Again, the method is quite
23 adaptable, so if I was instructed to, for
24 example, match only the first name, the
25 method could work that way as well.

1 Q. When you say first name and
2 last name, did both of them have to match
3 for it to be excluded?

4 A. So I ran a match on the first
5 name and last name and would deem it a
6 match if -- in some ways what I did was
7 basically an extra step that was not
8 necessary, because we accepted as a match
9 anything where just the last name matched.

10 So I matched them first by
11 first name/last name and then I matched
12 them a second time just by the last name.
13 If it matched as a last name, that was
14 accepted as a match.

15 Q. Did you perform any searches
16 specific to just the first name?

17 A. Again, I did not do that in
18 this case, but the method would be easily
19 adaptable, since the matching information
20 would be there to look at the first name
21 only and consider as a match any name where
22 the first name matches, but the last name
23 does not.

24 Q. Mr. Snyder testified that you
25 typically get many results for a single

1 A. We did one with a first and
2 last and then one with a last.

3 Q. But if the last name didn't
4 match under the fuzzy match, they were
5 included, correct?

6 A. I'm sorry, say that one more
7 time.

8 Q. If the last name didn't match
9 Citibank's records, they were included in
10 the list, correct?

11 A. They were found as a mismatch,
12 and that information was then used as part
13 of the way to generate the list.

14 Q. So my wife's maiden name is
15 Kristin Kenny. When we got married, she
16 changed her name to Kristin McKenna.

17 She would be included in this
18 list if Citibank's records showed an
19 attempt to call Kristin Kenny?

20 A. I would have to run the name
21 search and see if there was sufficient
22 information there for a match.

23 If the Court were to want to
24 see a first name match, we can do that. If
25 we wanted to see a slightly lower

1 threshold, that is also very easy. It
2 would take, again, five or ten minutes.

3 Q. But your fuzzy search isn't
4 going to identify maiden name to married
5 name changes?

6 A. It would depend on the names
7 and the similarity of the names.

8 Q. You would have to marry someone
9 who has a similar last name to your maiden
10 name, correct?

11 A. If the names are similar, it is
12 going to find it as a match.

13 Q. So, Mr. Weir, you can agree
14 with me that we are reaching the
15 ridiculous, right?

16 In order for that fuzzy search
17 to catch the married name, my wife's maiden
18 name and her married name would have to be
19 similar to each other, correct?

20 A. Correct.

21 Q. If her maiden name were
22 Fitzpatrick and she married me, McKenna,
23 they wouldn't connect on a fuzzy search?

24 A. I'm sorry, pairing with you?

25 Q. I am saying that if Citibank's

1 think so.

2 Q. Did you see any data from TLO
3 that showed multiple entries for the same
4 person?

5 A. Yes.

6 Q. Or date ranges for the same
7 person?

8 A. Yes.

9 Q. In those instances, did you use
10 the date range or did you use the
11 first-seen date?

12 A. So to be conservative, as I
13 explained, I used the latest first-seen
14 dates for matches and the latest first-seen
15 date for mismatches.

16 Q. And if a later first-seen date
17 contradicted with a date range for another
18 person, how did you deal with that
19 contradiction?

20 A. When you are looking at the
21 last-seen date?

22 Q. Yes.

23 A. Based upon my prior experience,
24 I have relied upon the first-seen dates
25 because it would be very difficult for

1 someone to become associated with a phone
2 number before they actually were associated
3 with the phone number.

4 So let's say you are about to
5 go get a cell phone, TransUnion is not
6 going to know what number you are going to
7 get in advance. So I believe the most
8 accurate information about the most current
9 customary user is the first-seen date data,
10 which is what I used, and in the
11 conservative maximum first-date fashion
12 that we have discussed.

13 Q. Did you use the last-seen date
14 at all for your analysis?

15 A. I did not, although it would
16 certainly be possible to incorporate that
17 into the analysis.

18 Q. When you removed the name
19 matches, you were left with 176 unique
20 phone numbers that did not have last name
21 matches, correct?

22 A. I think that's right.

23 Q. In paragraph 15(VII)(4), you
24 state that "The resulting lists shows all
25 wrong number calls made to a cell phone

1 an association, a single date, or do you
2 see multiple dates?

3 A. Again, the first-seen date is
4 always going to be a single date, to the
5 best of my knowledge.

6 Q. Have you seen an instance where
7 the first-seen date and -- what is the
8 last-seen date?

9 A. Again, because of the way that
10 I use the data, I haven't given full
11 consideration to the last-seen date and
12 have been warned that that date can reflect
13 basically ongoing apparent affiliation with
14 a number when the number is no longer
15 affiliated with a person.

16 So, for example, you go online
17 and you sign up for a utility and you
18 discontinue your cell phone, but you never
19 changed the number associated with the
20 account, and so, again, I rely upon the
21 first-seen dates since those are going to
22 be more reliable indicia of when a new
23 person is affiliated with a number than the
24 last seen dates.

25 Q. Who warned you that the

1 last-seen date is less reliable than the
2 first-seen date?

3 A. Again, I believe I got that
4 information from my discussions with both
5 TransUnion and with LexisNexis.

6 Q. Who at TransUnion told you
7 that?

8 A. I don't have a recollection.

9 Q. When was your conversation with
10 TransUnion where they told you that?

11 A. Again, a year or two ago.

12 Q. Was it a year or two years ago?

13 A. I don't have a precise
14 recollection.

15 Q. Was it in 2018?

16 A. It was either sometime in 2017
17 or 2018.

18 Q. Would it have been late 2017,
19 early 2017?

20 A. Probably, again, mid 2017
21 through -- I mean, I didn't have the
22 conversation yesterday, so I'm guessing mid
23 2017 to early 2018.

24 Q. And someone at Lexis told you
25 that the last-seen date was less reliable

1 A. Using a combination of
2 first-seen date for matches and mismatches.

3 Q. And the matches and mismatches
4 we previously discussed are name matches,
5 correct?

6 A. They are based on names,
7 correct.

8 Q. And based on last names?

9 A. Correct, although they could
10 easily be based on first names only.

11 Q. I don't want to talk about what
12 you can do, I want to talk about what you
13 did do, and you only did it on last names,
14 right?

15 A. I did it on last names,
16 although it would be very easy to do on
17 first names.

18 Q. Does your methodology focusing
19 on last names take into account at all that
20 people change their names?

21 A. Again, all I'm doing is
22 comparing the customary users with the
23 names identified in Citibank.

24 Q. I would like to look at a
25 couple of examples of that, if that's okay.

1 You will see there are a few
2 calls to Tom's Custom Upholstery. Do you
3 see that?

4 A. Yes.

5 Q. What did you do to account for
6 businesses in your search?

7 A. I have not been asked to
8 account separately for businesses, but I
9 have given some consideration, again, if I
10 was asked to do this, the Citibank notation
11 for businesses has the business name in the
12 first name and last name field.

13 I would search, again, to match
14 those records where the first and last
15 names match and remove them from the
16 dataset.

17 Q. But you didn't do that so far,
18 right?

19 A. I haven't been asked to do
20 that, but I'm aware that I can.

21 Q. We keep talking about all these
22 things you could do improve the results,
23 but you didn't do any of those things so
24 far, right?

25 A. I don't know that I would agree

CERTIFICATION

I, TODD DeSIMONE, a Notary Public for
and within the State of New York, do hereby
certify:

That the witness whose testimony as
herein set forth, was duly sworn by me; and
that the within transcript is a true record
of the testimony given by said witness.

I further certify that I am not related
to any of the parties to this action by
blood or marriage, and that I am in no way
interested in the outcome of this matter.

IN WITNESS WHEREOF, I have hereunto set
my hand this 31st day of December, 2018.



TODD DESIMONE

* * *

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UNITED STATES DISTRICT COURT

NORTHERN DISTRICT OF CALIFORNIA

JEREMIAH REVITCH, on behalf of himself and
all others similarly situated,

Plaintiff,

v.

CITIBANK, N.A.

Defendant.

Case No. 3:17-cv-06907-WHA

**REPLY DECLARATION OF RANDALL
A. SNYDER**

Date: February 14, 2019

Time: 8:00 a.m.

Courtroom: 12, 19th Floor

The Hon. William H. Alsup

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE SEALED

REPLY DECLARATION OF RANDALL A. SNYDER

I, Randall A. Snyder, hereby declare as follows:

1. My name is Randall A. Snyder. I am an adult over the age of 18 and a resident of the state of Nevada. I have personal knowledge of each of the matters stated herein, and if called to testify I could and would testify competently about them.

2. I am an independent telecommunications technology consultant and reside at 8113 Bay Pines Avenue, Las Vegas, Nevada, 89128. I have been retained by Bursor & Fisher, P.A. to provide my opinions relating to the dialing technology utilized by Citibank, N.A. (“Defendant” or “Citibank”) to make outgoing debt collection calls. In particular, I have been asked to determine whether the Defendant utilized equipment that stored or produced telephone numbers to be called, using a random or sequential number generator, and dialed such numbers, and whether the Defendant utilized equipment that dialed telephone numbers from a stored list of numbers automatically. In addition, I have been asked to determine whether identity and contact information for proposed Class members can be correctly obtained based on the produced call log data.

RELEVANT TRAINING, EXPERIENCE AND CREDENTIALS

3. I have over 34 years of experience in telecommunications network and system architecture, engineering, design and technology. I have expertise in the fields of both wireline and wireless telecommunications networking technology. I have a Bachelor of Arts degree with a major in mathematics from Franklin and Marshall College. I have been retained as a testifying or consulting expert in over 320 cases regarding cellular telecommunications technology, including over 280 cases regarding the Telephone Consumer Protection Act (“TCPA”). Additionally, I have been retained by both plaintiffs and defendants regarding the TCPA and associated regulations.

4. I was a software engineer, designing, developing, testing and deploying code for complex real-time database, data communications and telecommunications systems for the first

1 eight years of my career. This work included designing and developing relational databases,
2 database applications, data communications protocols, telecommunications protocols, signaling
3 protocols, call control and call processing systems and dynamic traffic engineering and overload
4 control systems for the cellular networks. Overall, these software systems were written in
5 assembly computer language (ASM), Pascal and C programming languages.

6 5. I have taught many classes and seminars on both wireline and wireless
7 telecommunication network technologies and have been a panelist and speaker at numerous
8 conferences at the Institute of Electrical and Electronics Engineers (“IEEE”), the Personal
9 Communication Society (“PCS”), and the Cellular Telecommunications and Internet Association
10 (“CTIA”) as an expert in telecommunication networks. I spent seven years developing standards
11 within the American National Standards Institute’s subsidiary organization, the
12 Telecommunications Industry Association (“TIA”), providing technical contributions and
13 authoring and editing telecommunications proposed standards documents. Most notably, I
14 authored and oversaw the standardization of Interim Standard 93, providing interconnection
15 technology between wireline and wireless networks, which is now a fully accredited national
16 standard of the American National Standards Institute (“ANSI”).

17 6. I am the co-author of the McGraw-Hill books “Mobile Telecommunications
18 Networking with IS-41,” and “Wireless Telecommunications Networking with ANSI-41, 2nd
19 edition” published in 1997 and 2001, respectively. I have been issued 40 patents on
20 telecommunications technology. I have been hired as a consultant by the CTIA, as well as by
21 many wireline and wireless telecommunications companies, including Bell Laboratories, McCaw
22 Cellular, AirTouch, AirTouch International, AT&T Wireless, AT&T Mobility, Lucent, Nokia,
23 Ericsson, Motorola, Samsung, Siemens, Nextwave, MCI, Daewoo, Globalstar, T-Mobile, Sprint,
24 U.S. Cellular, Telelobe Canada, Teledesic and other telecommunications technology vendors
25 and service providers. I was also nominated in 2006 for a National Television Arts Emmy Award
26 for Outstanding Achievement in Advanced Media Technology for unique wireless content
27
28

1 distribution technology I designed while employed at Entriq, Inc. Still more detail, as well as
2 details of publications that I have authored or co-authored within at least the past 10 years, were
3 provided in my *curriculum vitae* (which was attached to my November 28, 2018 Declaration
4 (Doc. No.83-5)) along with a list of cases where I served as a testifying or consulting expert and
5 my standard rate sheet and signed retainer agreement.

6 7. I am being compensated at the rate of \$485 per hour for my study, analysis and
7 written testimony in this case and \$525 per hour for depositions and in-court testimony.

8 **RESPONSE TO MISCHARACTERIZATIONS OF MY TESTIMONY**

9
10 8. As identified in my November 28, 2018 Declaration, it is my opinion, based on
11 my knowledge, education, experience, expertise, training, and the facts described therein, that the
12 identities and contact information of individuals who received wrong-party calls from the
13 Defendant, at any point in time, can be definitively and clearly obtained based on the
14 methodology identified therein. The ability to do so is a straightforward administrative process.

15 9. I have reviewed Mr. Colin Weir's execution of the methodology in his November
16 28, 2018 Declaration and believe that he correctly implemented the methodology in a reliable
17 and accurate manner. Nonetheless, Defendant contends that the methodology "was not
18 performed according [to my] expectations[.]" Daley Report ¶ 56; Opposition of Defendant to
19 Motion for Class Certification ("Opposition") at 12:17-15:15. This is a mischaracterization of
20 my testimony.

21 10. At my deposition I repeatedly identified that "this is an adaptable methodology. If
22 there's additional filtering that needs to be made or comparisons that need to be made, they
23 certainly can be." Snyder Depo. at 160:4-7. To that end, I described additional steps that **could**
24 be undertaken to alleviate concerns of "false positives." *Id.* at 150:25; *see also, e.g.*, 139:3-7;
25 160:2-7; 197:3-9. Defendant and Ms. Daley use my candid discussion of the options available to
26 the Court to misrepresent the nature of my directions to Mr. Weir.

27 11. For instance, Ms. Daley opines that I "was of the impression that the appropriate
28

way in which to compare names to find matches to customers was to check both first and last names.” Daley Report ¶ 77¹; Opposition at 13:21-24 (claiming Mr. Weir did not follow my instructions for how to handle “Citibank Accountholder name changes”). This is not true. When asked at my deposition if Mr. Weir “eliminate[d] people that may have a similar first name but a different last name?” (*id.* at 197:14-15), I correctly responded that “I don’t think that it was done here.” *Id.* at 197:16-17. However, I did go to explain the “methodology we put forth allows for additional filtering confirmation [like comparing first names].” *Id.* at 197:18-20. Indeed, as Mr. Weir has testified and shown, it is a simple matter to run the name matching software against first names in addition to last names. Weir Reply Decl. ¶ 61; Weir Dep., 347:15-17. Similarly, it would also be very simple to adjust the name matching process to eliminate business names. Weir Reply Decl. ¶ 61; Weir Dep. at 357:7-16.

12. Citibank also represents that I “testified that conflicts in the TLOxp data can and **must** be addressed by ‘cross-referenc[ing] against another data processor, or you [sic] in our case, you can eliminate it from the class if you’re not exactly sure.’” Opposition at 13:18-20 (emphasis added) (quoting Snyder Dep. at 189:10-15). In fact, I testified as follows:

A. I don't have that experience usin_ data with that h_ othetical. All I can sa_ is if _ou _et data that looks erroneous for some reason _ou can alwa_ s cross-reference that against another data _rocessor or __ in our case, you can eliminate it from the class if you're not exactly sure.

Snyder Dep. at 189:10-15. I did not testify how conflicts “must” be resolved, I merely describe the options available under the methodology with the assumption of “erroneous” data,

13. I certainly never testified, as Citibank represents, that “competing ‘first seen’ and ‘last seen’ dates associated with multiple names” represent a conflict that must be resolved in the

¹ Ms. Daley’s characterization of the “appropriate way” to match names is belied by Citibank’s reliance on only last names to track when a cell phone has been reassigned. *Compare* Daley Report ¶ 36 with ¶ 77.

1 manner described above. Opposition at 13:21-22. Instead I testified as follows:

2 . So in this case are you providing an opinion on the
3 reliability of a first seen date versus a last seen date in the TLO
4 data?

5 A. No. I'm providing an opinion on the general methodology that
6 can be used to identify or contact potential class members.

7 Snyder Dep. at 201:22-202:2; 201:19-21 (“A. ... Again, [Mr. Weir] is an expert in the usage of
8 this data and that data that’s returned based on the queries he makes, so I would defer to him.”).

9 14. I have reviewed Mr. Weir’s rationale for relying on the most recent “first seen”
10 date included in the TLOxp data (*see, e.g.*, Weir Reply Decl. ¶¶ 31-34; Weir Dep., at 275:23-
11 276:12 and 326:9-327:4) and I am satisfied that Mr. Weir’s application of the TLOxp data is
12 consistent with the methodology I proposed in my November 28, 2018 Declaration.

13 I declare that the foregoing is true and correct subject to the laws of perjury of the United
14 States.

15 Executed in Las Vegas, Nevada, on this 1st day of February, 2019.

16 

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18 Randall A. Snyder
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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

JEREMIAH REVITCH, on Behalf of Himself
and all Others Similarly Situated,

Plaintiffs,

Case No. 17-cv-06907-JCS

v.

CITIBANK, N.A.,

Defendant.

Reply Declaration

of

COLIN B. WEIR

February 1, 2019

REFERENCES MATERIALS DESIGNATED "CONFIDENTIAL" AND "HIGHLY
CONFIDENTIAL ATTORNEYS' EYES ONLY" UNDER PROTECTIVE ORDER

UNREDACTED DOCUMENT SOUGHT TO BE SEALED

I, Colin B. Weir, declare as follows:

I am Vice President at Economics and Technology, Inc. ("ETI"), One Washington Mall, 15th Floor, Boston, Massachusetts 02108. ETI is a research and consulting firm specializing in economics, statistics, regulation and public policy.

I. QUALIFICATIONS, BACKGROUND, AND EXPERIENCE

1. I hold a Masters of Business Administration, with honors, from the High Technology program at Northeastern University, Boston, Massachusetts. I hold a Bachelor of Arts degree cum laude in Business Economics from The College of Wooster, Wooster, Ohio. I have provided expert testimony before federal and state courts, the Federal Communications Commission, and state regulatory commissions, and have contributed research and analysis to numerous ETI publications and expert testimony at the state, federal, and international levels. I have consulted on a number of cases involving telecommunications issues, including the TCPA, broadband technology and Internet access; technical issues associated with net neutrality; Early Termination Fees (ETFs); Late Fees; wireless handset locking practices, merger/antitrust analysis, determination of Federal Excise Tax burden, ISP-bound traffic studies, area code splits and related numbering policy, Universal Service Fund issues, pricing and regulation of Un-bundled Network Elements, analysis of special access rates and pricing trends, and development of a macroeconomic analysis quantifying the economic impact upon the US economy and job markets of overpricing special access services; wireless pricing; and wireline telecommunications tariff and contract pricing. I have consulted on a variety of consumer and wholesale products cases, calculating damages relating to telecommunications services, food products, household appliances, herbal remedies, health/beauty care products, electronics, and computers. My Statement of Qualifications, which outlines my professional experience, publications, and record of expert testimony, is attached hereto as Exhibit 1. This includes a list of all cases in

Reply Declaration of Colin B. Weir
February 1, 2019
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which, during the previous four years, I have testified as an expert at trial or by deposition. Prior to joining ETI, I worked at Stop and Shop Supermarkets for a period of seven years, working as a cash department head, grocery/receiving clerk, and price-file maintenance head.

II. ENGAGEMENT

2. I provide this declaration in connection with connection with the case filed by Plaintiff Jeremiah Revitch ("Plaintiff") in the above-captioned action against Defendant Citibank N. A. ("Defendant"). I have been asked by Counsel for Plaintiff to review the January 11, 2019 Report of Margaret Daley ("Daley Report") and to respond thereto. I make this declaration based upon my own personal knowledge and, if called as a witness in this action, I would be able to competently testify as to the facts and opinions set forth herein.

3. ETI is being compensated at the rate of \$600 per hour for my work on this case. The opinions expressed in this declaration are my own, and my compensation is not dependent upon the substance of these opinions or the outcome of the litigation.

4. The documents, data and other materials that I relied upon in forming my opinions are identified throughout my report and in Exhibit 2, attached hereto. In addition, I have relied upon my educational background and more than 15 years of experience.

III. RESPONSE TO DALEY

Daley is not in a position to evaluate my effectuation of the Snyder methodology because she does not understand the method, and does not have any familiarity with components of the analysis

5. The Daley Report focuses on whether or not Snyder's methodology, and my implementation of that methodology can be used to determine damages in this case.¹ But Daley

¹ See, generally, Daley Report.

Reply Declaration of Colin B. Weir
February 1, 2019
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is not in a position to evaluate whether my effectuation of the Snyder methodology can determine damages for a number of reasons.

6. First, Daley claims to not understand what it is that Snyder has proposed as a methodology or how I have effectuated that method. When asked if I had literally operationalized Snyder's method, Daley testified that she did not know.

Q. Do you agree or disagree that Mr. Weir's role was to operationalize Mr. Snyder's instructions?

A. I don't understand honestly what these two were doing, really.²

It appears that Daley did not complete all of the investigative work of the methodology that she wanted to because of the holiday season:

So we had questions we wanted answered so we could try and figure out where it's going wrong. **[] At the end day, I think we might have stopped trying** because the point was to look at the 176. And there was an awful lot of work to do there to look at the account records. And, **as you can recall, it was Christmas and New Years.**³

7. Daley is also not familiar with the software used to conduct the analysis, or the underlying algorithms.

Q. Have you ever used Stata prior to this litigation?

A. No.

...

A. I'm not an expert on Stata and I did not personally do the work on Stata in this matter.

² Daley Deposition, at 199.

³ Daley Deposition, at 246-247.

Reply Declaration of Colin B. Weir

February 1, 2019

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...

A. I'm not familiar with the matchit [name matching] program. I don't know how configurable it is.⁴

8. Given these issues, it appears that Daley is not in a position to evaluate my effectuation of Snyder's methodology.

Daley criticizes Snyder and myself for using a method that Citibank itself relies upon

9. Daley is critical of the use prescribed by Snyder of name matches that seek to compare last names.⁵ Yet Daley acknowledges that this is the very method that Citibank uses to guard against calling numbers that are no longer in use by Citibank accountholders.

Citibank subscribes to a service provided by Neustar that assesses a probability "score" that a cellular telephone number is being used by a person with a particular last name. Citibank consults the Neustar scores on a daily basis in an effort to prevent calling cellular numbers that are no longer in use by its account holders.⁶

10. Daley applauded Citibank's use of this method.

Q. Do you have any criticisms of Citibank's use of Neustar?

A. Well, I think as a bank that's making calls that are potentially subject to the TCPA, it's good that they're trying -- using the best -- trying the best they can to identify reassigned numbers.⁷

⁴ Daley Deposition, at 27-28, 224.

⁵ See, e.g., Daley Report, at para. 77.

⁶ Daley Report, at para. 36.

⁷ Daley Deposition, at 8.

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11. While Snyder's methodology does not call for the use of first name comparisons, there is nothing that would prevent the available technology and program that I have developed from so doing. As I testified at deposition, it is possible to adjust algorithm used to match the names to consider the first names as well as last names.

Q. Did you perform any searches specific to just the first name?

A. Again, I did not do that in this case, but the method would be easily adaptable, since the matching information would be there to look at the first name only and consider as a match any name where the first name matches, but the last name does not.⁸

12. Daley also references my use of a "score" threshold to determine whether the names are a match.⁹ I would note that this is also part of the methodology that Citibank itself uses to try to prevent wrong number calls. As I testified at my deposition, this score threshold is also a flexible part of the methodology that can be adjusted if so required.

Q. What is your matching algorithm?

A. It is part of this data program known as Matchit, which does a bigram analysis of two comparable pieces of text and returns a Jaccard similarity score.

Q. What would you do with that information?

A. I would then set a threshold where if the similarity score was above a certain amount, I would deem that as a match of the name, and if it was below a certain amount, I would deem it as a mismatch for that name.

Q. What were the amounts that you set?

A. Based upon my prior experience doing this type of matching, I used a threshold of 0.5. The Jaccard score ranges basically like a baseball batting

⁸ Weir Deposition, at 268.

⁹ Daley Report, at para. 76.

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average, from 0 to 1, and you would never expect matches to all be 1, because what we are trying to do is find, for example, like if you have the middle initial tacked on, we wouldn't want that to kick out a particular name.

So I set the score at 0.5. The method is adaptable, so you could set that at 0.4, if you wanted to be even more conservative than I have already been.¹⁰

13. Below, I will discuss the results of rerunning the Snyder methodology with several changes, including matching by first name.

Daley's claims that TLO data is inaccurate or unreliable are belied by her own long time use of the TLO service

14. Daley makes a number of unfounded assertions about the accuracy and reliability of the TLO data.¹¹ These accusations are baseless and self-serving, unfounded, and contradicted by Daley's own findings and conclusions.

15. It is difficult to reconcile Daley's criticisms of the TLO data with her own long term use of the very same data. Unprompted, Daley notes in her report that:

[Daley] has decades of experience using TLO, LexisNexis, and other data vendors in [her] capacity as a professional investigator and licensed private detective.¹²

16. Daley testified at deposition that as of her last review of the state of the marketplace, she turns to TLO to associate people with phone numbers.

Q. When was the last time you researched or looked into current state of technology or services that are available as of 2018, let's say, that might facilitate identifying people, associating people with phone numbers?

¹⁰ Weir Deposition, at 265-266.

¹¹ Daley Report, at 153-172.

¹² Daley Report, at para. 72.

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A. We do as a general course of business, we're looking at the TLO and LexisNexis data as well as other types of data vendors.¹³

17. Daley admits that she and her staff use TLO "all the time" and that she herself uses TLO data at least once a month.

Q. Since joining [Berkeley Research Group] have you ever personally used TransUnion's TLOxp service, not counting any time where you may have directed someone else to do it, but you personally?

A. Sure, all the time.

Q. Okay.

A. Did it yesterday.

Q. Was that in connection with this case or another case?

A. Just in general.

Q. How frequently? Once a week? Twice a week? Every day?

A. It -- there isn't an average. It depends upon the need. So I would just say more than not I'm directing other people to pull something in particular and they send the report to me. But I personally use it maybe once a month.¹⁴

In fact, Daley's employer buys access to every one of the TLO search tools.

Q. Can you tell me what search tools you have access through TLOxp?

A. We have access to everything. We both -- of both batch access as well as the ability to pull individual reports. The individual reports have all the information that they sell.¹⁵

18. Daley relied in this litigation on TLO data to determine people's identities.

¹³ Daley Deposition, at 63-64.

¹⁴ Daley Deposition, at 71.

¹⁵ Daley Deposition, at 175.

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Q. [Y]ou trust TLO's information for the purposes of determining these two people are the same person?

A. Well, they've got the data that would show [] over time[.]¹⁶

19. If the TLO data is as inaccurate as Daley claims, why is she paying for a subscription to every one of TLO's search services and using these services "all the time" to provide services to her clients?

Daley cannot identify a single instance where TLO incorrectly identified the mobile status of a sample telephone number

20. Despite claiming that the TLO data is inaccurate, Daley confirms that, in this litigation, the TLO data correctly identified the mobile status of the telephone numbers that resulted from the Snyder methodology.

Q. Which numbers in the set of 176 from the sample set were misidentified as cell phones?

A. I don't know that that -- that they were.¹⁷

Daley confirms that the TLO data correctly identified the Citibank customer 98% of the time

21. Daley's criticisms of the accuracy of the TLO data are also belied by other indicia of reliability.

22. In my deposition, I was asked about the reliability of the TLO data. I noted that this can be estimated vis a vis a company's customer records.

¹⁶ Daley Deposition, at 130.

¹⁷ Daley Deposition, at 211.

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Q. What percentage accuracy would you attribute to the TransUnion data?

A. I haven't been asked to identify that precisely, but in other situations where I have looked at similar data, we wind up with situations where I think in greater than 90 percent of contexts the information is shown to be definitively accurate, and then there is additional data where, for example, it shows a new customary user of the phone, it is very likely that the majority of that data is also accurate.

Q. You said in certain instances 90 percent of the time the data is shown to be definitively accurate?

A. Correct.

Q. How?

A. Again, we have an expectation from a company's record that a number would be associated with a person and then that turns out to be the case in the TLOxp data.¹⁸

23. When Daley was asked about this phenomenon, she confirmed that TLO correctly identified Citibank's customer 98% of the time.

Q. Okay. Do you know for the 20,000 Citibank customers that were sampled by Mr. Weir, how many were accurately matched by name and number through TransUnion?

A. I -- oh, it was a really high number. It was like 98 percent, something like that.^{19,20}

¹⁸ Weir Deposition, at 116-117.

¹⁹ Daley Deposition, at 242.

²⁰ Daley and Defendant assert that TLO failed to return data associated with nearly 7,000 telephone numbers. (*See, e.g.,* Weir Deposition, at 262-263). I have re-checked the TLO batch data, and confirmed that at least one result was returned for all but 458 out of 20,000 numbers.

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Daley cannot support her claims that TLO is unreliable because she has not tested the data

24. As a final rejoinder to Daley's claims that TLO data is not accurate and is unreliable, I will note that any such claims from Daley are pure speculation. This is because Daley did not independently test the TLO data for accuracy. Other than the TLO data matching Citibank's records 98% of the time, she is not aware of any other test of the TLO service.

Q. Okay. Have you ever tried to do, independent of any specific litigation, a test with respect to TransUnion data similar or akin to what you did with Lexis in 2016?

A. No, we have not.

Q. Are you aware of any other independent testing of the TLOxp service?

A. No.²¹

The available date range of the consent change reports is a function of Defendant's spoliation of the consent data--not of Plaintiff's methodology; Plaintiff's method can be run for any specific dates, or re-run without the database

25. Daley criticizes the Snyder methodology because the consent change reports only contain data from November 2017 onward.²² The available consent change report data is not a function of Plaintiff's methodology, rather the date range limitation is a function of Defendant's spoliation of the consent data by overwriting the consent data in its databases and dialer systems.

26. As a practical matter, the Snyder methodology can be run for any specified date range. As an example, the method could be run from the first date of the available consent change data. In effect, the results of the Weir report already reflect such a date range restriction.

²¹ Daley Deposition, at 81-82.

²² Daley Report, at para. 61.

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Snyder's method only excludes named Plaintiff Revitch because Defendant spoliated its telephone consent data

27. Daley attempts to impugn the Snyder methodology by noting that it fails to identify named Plaintiff Revitch.²³ But this is not a criticism of the Snyder methodology per se, so much as an indication that where Defendant has spoliated its consent records by overwriting them in its databases and dialer systems, the Snyder method conservatively excludes such calls.

28. As discussed above, the Snyder method can be limited to a particular date range for which records are available, or can be operationalized without the consent change report data.

29. Daley claims to have run named Plaintiff Revitch through a TLO search. I have also run this search. When Plaintiff Revitch's number is searched, TLO correctly identifies him as a customary user of the number and does not identify as a customary user Alan Exelrod, the customer that Citibank was intending to reach when it called Revitch.

A number of additional data points can be included in the analysis, though it is not clear that it would be prudent to do so

30. Daley claims that I should have incorporated a number of additional data points when operationalizing the Snyder methodology, including "last seen" dates and "probability scores" from TLO, and account numbers from Citibank.²⁴ As I will discuss in greater detail below, it is certainly technically feasible to incorporate such information into the analysis, though Daley is wrong to suggest that inclusion of all of these factors would improve the analysis.

²³ Daley Report, at para. 66.

²⁴ Daley report, at paras. 80, 91, and 152.

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"Last Seen" Dates

31. The TLO data typically returns both a "first seen" and "last seen" date for each person associated with a telephone number. The "first seen" date will be a date on or after a person becomes associated with a telephone number. The first seen date is generated by new data being associated with a number. In the manner in which I have used the "first seen" date, the analysis is conservative, because a new customary user may become associated with a telephone number before the "first seen" date reported by TLO. The "last seen" date will operate in the reverse, with the date potentially being reported after the customary user has stopped being associated with that telephone number. This is because companies, like Citibank, often maintain associations between a customary user and a telephone number after that association has come to an end.²⁵ In effect, rather than being based on new data, the "last seen" date can be populated with stale data.

32. I explained my preference for using the "first seen" data in my deposition.

Q. And if a later first-seen date contradicted with a date range for another person, how did you deal with that contradiction?

A. When you are looking at the last-seen date?

Q. Yes.

A. Based upon my prior experience, I have relied upon the first-seen dates because it would be very difficult for someone to become associated with a phone number before they actually were associated with the phone number.

So let's say you are about to go get a cell phone, TransUnion is not going to know what number you are going to get in advance. So I believe the most accurate information about the most current customary user is the first-seen date data, which is what I used, and in the conservative maximum first-date fashion that we have discussed.

²⁵ Citibank and Daley cannot rebut this. Daley Deposition, at 140.

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Q. Have you seen an instance where the first-seen date and -- what is the last-seen date?

A. Again, because of the way that I use the data, I haven't given full consideration to the last-seen date and have been warned that that date can reflect basically ongoing apparent affiliation with a number when the number is no longer affiliated with a person.

So, for example, you go online and you sign up for a utility and you discontinue your cell phone, but you never changed the number associated with the account, and so, again, I rely upon the first-seen dates since those are going to be more reliable indicia of when a new person is affiliated with a number than the last seen dates.²⁶

33. Daley curiously insists that it would be better to ignore the "first seen" data in favor of the "last seen" dates. When asked about the accuracy of these "last seen" dates, Daley was clear: "I do not believe that these dates are accurate, just period, under any circumstances," and that it was "[her] personal view and [her] opinion that those dates are inaccurate in general and unreliable."²⁷

34. Daley elsewhere notes that one of the sources of TLO data are banks (including Citibank!) that maintain outdated data as to phone number associations and that last seen dates can therefore be out of date precisely because companies like Citibank are unaware of when numbers become reassigned.

Because TLO uses credit card applications as a means to associate a person with a cellular number it is likely drawing from the very same data as Citibank (its account holder data) to determine if a cellular number is associated with a person. Because neither Citibank or TLO is informed when numbers are reassigned they both have outdated information for some people.²⁸

²⁶ Weir Deposition, at 275-276, 326.

²⁷ Daley Deposition, at 108-109.

²⁸ Daley Report, at para. 80.

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TLO Probability Scores

35. Daley also suggests that I should have considered what she describes as "probability of ownership" scores. TLO does include a score associated with each record, but it is called "PhoneScore" and is not called "probability of ownership." These scores do not indicate probabilities in the way people are accustomed to, and I was recommended by TransUnion not to use the scores in the manner proposed by Daley.

36. First off, Daley admits that she is not an expert in probability:

Q. Do you view yourself as an expert in the area of probability?

A. You mean from a statistical standpoint? No.²⁹

Her lack of expertise was confirmed when she testified that she did not know whether the probability of something could be more than 100%. She also believes that, when taken together the probability of all possible outcomes could exceed 100%.³⁰ In the study of probabilities, something that is certain cannot have a probability of more than 100%--if it is raining outside, the probability that it is raining is 100%. And if there are various possible uncertain outcomes, together, their probabilities can equal no more than 100%. If there is a 70% chance of rain, all other possible weather outcomes cannot have a probability greater than 30%. You cannot have a 70% chance of rain **and** a 70% chance of sun.

37. It is precisely this lack of expertise that leads Daley to misunderstand the PhoneScore from TLO. A quick examination of the PhoneScore data indicates that they cannot be probabilities in the way that Daley claims.

²⁹ Daley Deposition, at 23.

³⁰ Daley Deposition, at 25-26.

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38. The very first entry in the TLO data is for telephone number: 623-760-5291. There are five entries from TLO in this data: 87.8, 66.3, 87.8, 1, and 87.8. Together, these add up to 330 -- an impossibility in probability measurement. Moreover, TLO gives Justin Miller a PhoneScore of both 87.8% and 1% which is also not a realistic outcome in probability measurement.

39. The document that Daley relies on to suggest that there is a probability of ownership score does not reference the "PhoneScore" in the TLO data at issue in this litigation.

40. Daley herself admits that the alleged probability of ownership is a poor measure of the reliability of the phone data.³¹ She states that she herself "wouldn't use the probability score."³²

41. Even though she has used TLO data for decades, she has never made use of the "probability" score.

Q. Apart from anything you did in connection with this case, have you ever used TransUnion's probability of ownership score

A. I don't think so.³³

42. As such, I stand by the Snyder's original choice to not include the PhoneScore in the analysis. However, I would assure the Court that, if it were deemed possible it would be feasible to include this data in the analysis.

Account Data

43. Daley Claims that Snyder's methodology is flawed because it does not account for

³¹ Daley Deposition, at 142.

³² Daley Deposition, at 145.

³³ Daley Deposition, at 146.

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44. the fact that individuals may have multiple accounts with Citibank with different levels of consent for each account.³⁴

45. This allegation is contradicted by Daley's own testimony as to how Citibank manages consent across accounts.

Significantly, Citibank uses a TCPA compliance mechanism that automatically updates some **telephone numbers that appear in multiple accounts** to conform them to the lowest common level of consent.³⁵

At deposition, Daley confirmed that the lowest common level of consent that Citibank would be conforming across multiple accounts would in fact be "no consent":

But in terms of what I meant when I drafted it, the lowest level of consent would be "don't call me, you have no consent."

...

So if somebody says "do not call me" or "this is a bad number," that means no consent. No consent would be the lowest level of consent.³⁶

46. In addition, the customer records produced to Plaintiff only contained redacted account numbers.

47. While it sounds like Daley has raised yet another red herring, if Citibank has not destroyed its account number data, it would be possible to adjust the methodology to cross reference the account numbers from the consent change reports against the account numbers in the CDRs.

³⁴ Daley Report, at paras. 18 and 102.

³⁵ Daley Report, at para. 102.

³⁶ Daley Deposition, at 155-156.

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Customer account records also contain errors

48. Daley makes the case that only a manual review of customer account records can be used to fully understand whether a Citibank customer is a user of a phone and has given consent. But Daley herself admits that these records also contain errors--including the one that led to calls being placed to named Plaintiff Revitch.

Q. I mean, is it -- is it -- is it possible that incorrect wrong number codes are also reflected in the account level notes?

A. Yeah, I think -- I think that is certainly possible because you're dealing with human error.

...

A. I'd have to look at the dates on the account records, because I recall that there were conversations where Mr. Revitch said "stop calling me," and he was called again because there was an error by the customer service agent where it appears that she should have called it a bad number and didn't.³⁷

TLO's disclaimer of a warranty is a legal protection not a statement of the accuracy of the data

49. Daley argues that because TLO does not warrant the accuracy of its data, the data must therefore be inaccurate.³⁸ The warranty that Daley references is deep in the legal language of Trans Union's terms and conditions included by reference to the Trans Union website. This lack of warranty does not speak to, or directly measure the actual accuracy of the underlying data -- it is an attempt by Trans Union to limit their liability. Indeed, if the data were so demonstrably inaccurate, it is hard to believe that customers, including Daley herself, would continue to purchase it.

³⁷ Daley Deposition, at 113, 90-91.

³⁸ Daley Report, at para. 176.

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50. Daley provides as a contrast to the "legalese" of the terms and conditions, a public facing document that Trans Union uses to sell its services. Daley's document from Trans Union represents to customers:

- TransUnion helps make compliance with the Telephone Consumer Protection Act (TCPA) and verification of your contact data easier;
- With real-time access to carrier data, your organization can quickly confirm the line type and verify ownership of a given phone number;
- Reduce and limit calls to canceled or suspended numbers;
- Verify number ownership of the consenting party;
- Track ported numbers;
- Validate phone type; and
- Improve the accuracy of customer contact details.

51. This public facing document certainly does not decry the accuracy of the underlying data.

My access to data from TLO is not "the lowest level"

52. Daley seeks to impugn my use of the TLO data by suggesting that I have "the lowest level of TLO's subscription service."³⁹ This is a pecuniary sleight of hand. I say pecuniary because what Daley is describing is **not** the availability of TLO search tools or the quality of the TLO data available to me, but rather the contractual minimum financial commitment that my firm has made to TLO.⁴⁰

³⁹ Daley Report, at 186.

⁴⁰ "Q. Let's go to paragraph 186. [] And I'm just focused on the first sentence. I just want to know what you meant when you said Mr. Weir has the lowest level of TLO subscription service? A. 25 bucks a price." Daley Deposition, at 171-172.

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53. While it is conceivable that my firm could save money by committing to a higher level of use, the monthly contractual minimum with TLO does not impact the level of services available through my subscription or the quality of the data provided. I have access to the same batch and individual reports that Daley does (and which she notes includes all of the available TLO search options).

Daley/Defendant are wrong when they claim that TLO cannot identify my cell phone, and Daley did not care to check

54. Daley asserts that TLO does not correctly identify my cell phone number. This is incorrect. In advance of my deposition, Daley herself erroneously identified a number that she believed to be my cell phone, but was not. I provided my cell phone number on the deposition record and Daley could have easily checked to see if TLO correctly identified me as the customary user of that number.

55. But Daley did not ever conduct that check. Rather than report the truth, just like her work being interrupted by the holidays, she opted to skip the work, report a falsehood, and not care about it.

Q. So you ran his name prior to the deposition, but after the deposition of Mr. Weir you didn't run any additional reports?

A. No, uh-uh.

Q. And is that because you believed you would not get any additional information other than what you had already obtained from the first report?

A. I didn't care.⁴¹

⁴¹ Daley Deposition, at 205.

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56. I have run my cell phone number through the TLO batch process, and the service correctly identifies me as the customary user of that phone number.

Daley concedes that she has no idea whether the calls identified by the Snyder methodology were or were not wrong number calls

57. Daley makes numerous assertions, as discussed above, about the Snyder methodology, and claims that, after she make several (dubious) changes, she discovers zero plaintiffs. But this "analysis" is not as it appears, because Daley does not know who received any of the calls and does not believe her own methods can identify wrong number calls.

Q. And is it your opinion that the overwhelming majority of calls that were marked as wrong numbers appeared to have been made to accountholders?

A. I have no idea who actually received those calls. ... I don't know who received those calls.⁴²

58. As part of her "analysis," Daley claims to associate certain individuals with each of the 176 telephone numbers identified by the Snyder methodology. But Daley never determined whether any of those individuals did or did not received a wrong number call:

Q. But my question is: Did you make the determination whether or not Carlos Davila received a wrong number call from Citibank?

A. Nobody made that determination. ...

Q. A moment ago when you said nobody made that determination, were you referring just to Carlos Davila specifically or all the names on itemized on Exhibit, 63?

A. I think all of them.⁴³

⁴² Daley Deposition, at 124.

⁴³ Daley Deposition, at 260.

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59. Daley also testified, "I certainly have not been retained to say that any individual consented in any particular situation for any particular call."⁴⁴

60. Daley also further disclaims having made any affirmative determination as to whether any particular call was a wrong number call. In her report, Daley notes that Citibank has "outdated information for some people" because it is not informed when numbers are reassigned, and that "[i]t is impossible to determine which numbers are subject to this problem."⁴⁵

61. Unlike Snyder, Daley has not identified a methodology to determine who was called and whether they received a wrong number call. Since Daley believes that it is impossible to make such a determination, her analysis suggesting that there are no class members or wrong number calls must be taken for what it is: pure speculation.

Update of analysis

62. I have been asked to rerun my analysis with several changes, both to demonstrate that my operationalization of the Snyder methodology can incorporate the changes discussed above, and to report the results of such changes. Specifically, I have been asked to:

- Include dialer names that reference "precision";
- Allow for matches based upon first names only;
- Allow for matches when the Jaccard score is greater than .4 instead of .5;
- Eliminate Citibank records where the customer name is the name of a business;
- Confirm that all resulting calls do not have the following coding:
 - `ov_call_connected_time == blank entry;`

⁴⁴ Daley Deposition, at 22.

⁴⁵ Daley Report, at para. 80.

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- `dialer_disposition == blank entry;`
- `response_status == "rr";`
- `dialer_name == "unknown".`

63. I have rerun my analysis of the 20,000 number sample using the above criteria.

64. In this sample of 20,000 numbers, there were 8,448 calls placed to 133 unique telephone numbers that meet the criteria identified above. The vast majority of these numbers received multiple calls. If that sample relationship holds, there would be approximately 506,880 calls to 7,980 unique telephone numbers.

65. The sample relationship and estimates described above, as well as in my opening declaration, reflects calls to phone numbers identified in Citibank's `Contact Utilities Database` (recorded since November 2017).

IV. RESERVATION OF RIGHTS

My testimony is based upon the information and data presently available to me. I understand that discovery is ongoing. Additional, different and/or updated data may be obtained in advance of trial. I therefore reserve the right to amend or modify my testimony, and anticipate supplementing this testimony when such data becomes available.

VERIFICATION

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge, information, and belief, and that this declaration was executed at Koloa, Hawaii, this 1st day of February, 2019.



Colin B. Weir

Exhibit 1

Statement of Qualifications
of

COLIN B. WEIR

Statement of Qualifications

COLIN B. WEIR

Colin B. Weir is Vice President at Economics and Technology, Inc. Mr. Weir conducts economic, statistical, and regulatory research and analysis, and testifies as an expert witness. Mr. Weir's work involves econometric and statistical analysis, multiple regression, surveys, statistical sampling, micro- and macroeconomic modeling, accounting and other economic analysis. Such analysis often involves analysis of databases, call detail records, and other voluminous business records. Mr. Weir is familiar with common statistical and econometric software packages such as STATA and Sawtooth Software. Mr. Weir assists with analysis of economic, statistical and other evidence; and preparation for depositions, trial and oral examinations. Mr. Weir has provided expert testimony before federal and state courts, the FCC, and state regulatory commissions, and has contributed research and analysis to numerous ETI publications and testimony at the state, federal, and international levels. Prior to joining ETI, Mr. Weir worked at Stop and Shop Supermarkets as a cash department head, grocery/receiving clerk, and price-file maintenance head.

Mr. Weir's experience includes work on a variety of issues, including: economic harm and damage calculation; liquidated damages provisions; lost profits; false claims; diminution in value; merger/antitrust analysis; Early Termination Fees (ETFs); Late Fees; determination of Federal Excise Tax burden; and development of macroeconomic analyses quantifying the economic impact of corporate actions upon the US economy and job markets.

Mr. Weir has conducted research and analysis in numerous litigation and regulatory matters on behalf of corporate, government and individual clients, including AT&T, MTS Allstream (Canada), The US Department of Justice, Office of the Attorney General of Illinois, Pennsylvania Department of Revenue, Thomas v. Global Vision, (class action litigation, Superior Court, County of Alameda), Ayyad v. Sprint (class action litigation, Superior Court, County of Alameda), Forcellati v. Hylands (class action, U.S. District Court, Central District of California), and Ebin v. Kangadis Foods (class action, U.S. District Court, Southern District of New York).

Mr. Weir holds an MBA with honors from Northeastern University. He also holds a Bachelor of Arts degree *cum laude* in Business Economics from The College of Wooster.

Mr. Weir is a member of the Boston Economic Club, a business member of the Boston Bar Association, serves on the Board of Trustees of the Waring School, and serves as the comptroller for the Sybaris Investment Partnership.

Statement of Qualifications – Colin B. Weir

Publications and Testimony of Colin B. Weir

Mr. Weir has co-authored the following:

Interoperability and Spectrum Efficiency: Achieving a Competitive Outcome in the US Wireless Market (with Lee L. Selwyn) Economics and Technology, Inc., prepared on behalf of United States Cellular Corporation, July 2012.

The Price Cap LECs' "Broadband Connectivity Plan": Protecting Their Past, Hijacking the Nation's Future (with Lee L. Selwyn and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of United States Cellular Corporation, September 2011.

Regulation, Investment and Jobs: How Regulation of Wholesale Markets Can Stimulate Private Sector Broadband Investment and Create Jobs (with Lee L. Selwyn, Susan M. Gately, and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of Cbeyond, Inc., Covad Communications Company, Integra Telecom, Inc., PAETEC Holding Corp, and tw telecom inc., February 2010.

Revisiting Us Broadband Policy: How Re-regulation of Wholesale Services Will Encourage Investment and Stimulate Competition and Innovation in Enterprise Broadband Markets, (with Lee L. Selwyn, Susan M. Gately, and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of MTS Allstream, February 2010.

Longstanding Regulatory Tools Confirm BOC Market Power: A Defense of ARMIS (with Lee L. Selwyn, Susan M. Gately, and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of the AdHoc Telecommunications Users Committee, January 2010.

Choosing Broadband Competition over Unconstrained Incumbent Market Power: A Response to Bell and TELUS (with Lee L. Selwyn, Susan M. Gately, and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of MTS Allstream, April 2009.

The Role of Regulation in a Competitive Telecom Environment: How Smart Regulation of Essential Wholesale Facilities Stimulates Investment and Promotes Competition (with Lee L. Selwyn, Susan M. Gately, and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of MTS Allstream, March 2009.

Special Access Overpricing and the US Economy: How Unchecked RBOC Market Power is Costing US Jobs and Impairing US Competitiveness (with Lee L. Selwyn, Susan M. Gately, and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of the AdHoc Telecommunications Users Committee, August 2007.

The AWS Spectrum Auction: A One-Time Opportunity to Introduce Real Competition for Wireless Services in Canada (with Lee L. Selwyn and Helen E. Golding) Economics and Technology, Inc., prepared on behalf of MTS Allstream, June 2007.

Comparison of Wireless Service Price Levels in the US and Canada (with Lee L. Selwyn) Economics and Technology, Inc., prepared on behalf of MTS Allstream, May 2007.

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Hold the Phone! Debunking the Myth of Intermodal Alternatives for Business Telecom Users In New York (with Susan M. Gately and Lee L. Selwyn) Economics and Technology, Inc., prepared for the UNE-L CLEC Coalition, August 2005.

Mr. Weir has submitted the following testimony:

United States District Court, Northern District of California, Debbie Krommenhock and Stephen Hadley, on behalf of themselves, all others similarly situated, and the general public, v. Post Foods, LLC, Case No. 3:16-cv-04958-WHO (JSC), on behalf of Law Offices of Jack Fitzgerald, PC, Declaration submitted January 11, 2019.

United States District Court, Southern District of New York, Leona Hunter and Anne Marie Villa, on behalf of themselves and all others similarly situated, v. Time Warner Cable Inc., Case No. 15-cv-06445-JPO (JLC), on behalf of Bursor & Fisher, P.A. Declaration submitted on November 30, 2018; Deposition on December 21, 2018.

United States District Court, Northern District of California, *Jeremiah Revitch, on Behalf of Himself and all Others Similarly Situated*, v. Citibank, N.A., Case No. 17-cv-06907-JCS, on behalf of Bursor & Fisher, P.A. Declaration submitted on November 27, 2018; Deposition on December 28, 2018.

United States District Court, Central District of California, *Kaylee Browning and Sarah Basile, on behalf of themselves and all others similarly situated*, v. Unilever United States Inc., Case No. 8:16-cv-02210, on behalf of Bursor & Fisher, P.A., Declaration submitted on October 22, 2018; Deposition on November 1, 2018; Reply Declaration submitted on November 23, 2018.

United States District Court, Southern District of New York, *Lori Canale, individually, and on behalf of all others similarly situated*, v. Colgate-Palmolive Co., Case No. 7:16-CV-03308-CS, on behalf of Bursor & Fisher, P.A., Declaration submitted on September 19, 2018.

Superior Court for the State of California, In and for the County of San Francisco, *Michelle Gyorke-Takatri and Katie Silver on behalf of themselves and all others similarly situated*, v. Nestlé USA, Inc. and Gerber Products Company, Case No. CGC 15-546850, on behalf of Stanley Law Group, Declaration submitted on September 7, 2018.

United States District Court, Northern District of Illinois, Eastern Division, *Ryan Porter and Haarin Kwon, individually and on behalf of all others similarly situated*, NBTY, Inc., United States Nutrition Inc., Healthwatchers (DE), Inc., and MET-RX Nutrition, Inc., Case No. 15-cv-11459, on behalf of Bursor & Fisher, P.A., Declaration submitted on August 15, 2018; Deposition on October 12, 2018; Reply Declaration on December 21, 2018.

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Superior Court of the State of California, For The County of San Francisco, Deanna Gastelum and Heather Bryden individually and on behalf of all other persons similarly situated, v. Frontier California Inc., Case No. CGC-11-511467, on behalf of Bramson, Plutzik, Mahler and Birkhaeuser; Declaration submitted on July 31, 2018, Declaration submitted August 13, 2018.

United States District Court, For the Southern District of New York, Suzanna Bowling, individually and on behalf of all others similarly situated, v. Johnson & Johnson and McNeil Nutritionals, LLC, Case No. 1:17-cv-03982-AJN, on behalf of Bursor & Fisher, P.A., Declaration submitted on July 30, 2018, Deposition on September 6, 2018; Reply Declaration submitted on November 16, 2018.

United States District Court, Southern District of New York, Anne De Lacour, Andrea Wright, and Loree Moran individually and on behalf of all others similarly situated, v. Colgate-Palmolive Co., and Tom's of Maine Inc., Case No. 1:16-cv-08364-RA, on behalf of Bursor & Fisher, P.A., Declaration submitted on June 15, 2018; Deposition on August 28, 2018; Reply Declaration submitted on November 21, 2018.

United States District Court, Northern District of California, San Francisco Division, In re: Chrysler-Dodge-Jeep EcoDiesel® Marketing, Sales Practices, and Products Liability Litigation Dorun Bali, et al., v. Fiat Chrysler Automobiles N.V., FCA US LLC, Sergio Marchionne, VM Motori S.p.A., VM North America, Inc., Robert Bosch GmbH, Robert Bosch LLC, and Volkmar Denner, Case No. MDL 2777-EMC, on behalf of Lieff Cabraser Heimann & Bernstein, Declaration submitted on June 6, 2018, Deposition on July 18, 2018, Reply Declaration submitted on September 4, 2018.

United States District Court, Northern District of California, Stephen Hadley, on behalf of himself, all others similarly situated, and the general public, v. Kellogg Sales Company, Case No. 5:16-cv-04955-LHK-HRL, on behalf of Law Offices of Jack Fitzgerald, PC, Declaration submitted April 30, 2018, Deposition on May 31, 2018; Reply Declaration submitted June 25, 2018; Declaration submitted on September 20, 2018; Deposition on September 28, 2018.

United States District Court, Northern District of Illinois, Eastern Division, Teresa Elward, Dennis Keesler, Leasa Brittenham, Kathy Beck and Nathaniel Beck, Angelia East, Sarah LaVergne, Tony And Lauren Fitzgerald, Gregory Gray, Bethany Williams, John McLaughlin, Stacy Cisco, and William Ferguson and Cheryl Ferguson, individually and on behalf of all others similarly situated, v. Electrolux Home Products, Inc., Case No. 1:15-cv-09882-JZL, on behalf of Greg Coleman Law, Declaration submitted April 20, 2018; Reply Declaration submitted on July 13, 2018; Deposition on August 17, 2018.

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United States District Court for the Northern District of California, Jackie Fitzhenry-Russell, an individual, on behalf of herself, the general public and those similarly situated v. The Coca Cola Company, and Does 1-50, Case No. 5:17-CV-00603-EJD, on behalf of Gutride Safier, LLP, Declaration submitted April 16, 2018; Deposition on October 3, 2018.

United States District Court for the Southern District of New York, Josephine James Edwards, individually and on behalf of all others similarly situated, v. Hearst Communications, Inc., Case No. 15-cv-09279-AT, on behalf of Bursor & Fisher, P.A., Declaration submitted April 16, 2018; Deposition on June 7, 2018.

United States District Court, Northern District of California, Jackie Fitzhenry-Russell, Robin Dale, and Gegham Margaryan, as individuals, on behalf of themselves, the general public and those similarly situated, v. Dr. Pepper Snapple Group, Inc., Dr Pepper/Seven Up, Inc., and Does 1-50, Case No. 5:17-cv-00564-NC (lead); Case No. 5:17-cv-02341-NC (consolidated); Case No. 5:17-cv-04435-NC (consolidated), on behalf of Gutride Safier, LLP, Declaration submitted April 9, 2018; Deposition on April 19, 2018; Reply Declaration submitted June 6, 2018; Supplemental Declaration submitted on November 19, 2018.

United States District Court for the Western District of Texas, Austin Division, Sylvia Morris, on behalf of herself and all others similarly situated, v. Modernize Inc., Case No. 17:-cv-963-SS, on behalf of Bursor & Fisher, P.A., Declaration submitted March 13, 2018; Deposition on June 14, 2018.

United States District Court, Northern District of California, San Jose Division, In re: Arris Cable Modem Consumer Litigation, Case No. 17-cv-1834-LHK, on behalf of Schubert Jonckheer & Kolbe, Declaration submitted on March 9, 2018; Reply Declaration submitted April 9, 2018; Deposition on April 11, 2018; Declaration submitted June 13, 2018; Declaration submitted January 31, 2019.

United States District Court, Southern District of New York, In re: Amla Litigation, Case No. 1:16-cv-06593-JSR, on behalf of Levi & Korsinsky LLP, Declaration submitted on March 5, 2018; Declaration submitted November 14, 2018; Deposition on November 28, 2018.

United States District Court, Eastern District of Michigan, Toby Schechner, Barbara Barnes, Laura Bliss, Kathleen Jordan, Kathryn Limpede, Louise Miljenovic, Candace Oliarny, Beverly Simmons, Richard Thome And Mary Ellen Thome, V. Whirlpool Corporation, Case No. 16-cv-12409-SJM, on behalf of Robbins Geller Rudman & Dowd, LLP, Declaration submitted February 12, 2018; Deposition on May 15, 2018; Reply Declaration submitted May 17, 2018.

United States District Court, Southern District of California, Jose Conde, et al., v. Sensa, et al., Case No. 14-cv-51 JLS (WVG), on behalf of Bursor & Fisher, P.A., Declaration submitted February 6, 2018.

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United States District Court, Northern District Of Illinois, Eastern Division, Angel Bakov, Julie Herrera, and Kinaya Hewlett, individually and on behalf of all others similarly situated, v. Consolidated World Travel, Inc. d/b/a Holiday Cruise Line, a Florida corporation, Case No. 15-cv-02980-HDL SEC, on behalf of Bursor & Fisher, P.A., Declaration submitted February 6, 2018; Deposition on April 25, 2018.

United States District Court, Northern District of Illinois, Jennifer Beardsall, Daniel Brown, Jennifer Carlsson, Deborah Carnick, Amy Connor-Slaybaugh, Phyllis Czapski, Raelee Dallacqua, Autumn Dean, Skye Doucette, Christopher Draus, Gerald Gordon, Alexandra Groffsky, Emma Groffsky, Joyce Ivy, La Tanya James, Michelle Jessop, Joy Judge, Kathy Mellody, Susan Nazari, Megan Norsworthy, Deborah Ostrander, Martina Osley, Dana Phillips, Thomas Ramon, Jr., Nancy Reeves, Matthew Robertson, Shelley Waitzman, Jamilla Wang, and Amber Wimberly, Individually and on Behalf of All Others Similarly Situated, v. CVS Pharmacy, Inc., Target Corporation, Walgreen Co., Wal-Mart Stores, Inc., and Fruit of the Earth, Inc., Case No. 1:16-cv-06103, on behalf of Greg Coleman Law, Declaration submitted December 22, 2017; Reply Declaration on May 4, 2018.

United States District Court, Southern District of New York, Jaish Markos, individually and on behalf of all others similarly situated, v. Russell Brands, LLC, Case No. 16-CV-04362(CS), on behalf of The Sultz Law Group, Declaration submitted on December 1, 2017, Deposition on January 4, 2018.

United States District Court, Northern District of California, Siera Strumlauf, Benjamin Robles, and Brittany Crittenden, individually and on behalf of all others similarly situated, v. Starbucks Corporation, Case No. 16-CV-01306-YGR, on behalf of Bursor & Fisher, P.A., Declaration submitted on October 31, 2017, Deposition on December 13, 2017.

United States District Court, Southern District of California, Sheila Dashnaw, William Meier, and Sherryl Jones, individually, and on behalf of all others similarly situated, v. New Balance Athletics, Inc., a corporation; and DOES 1 through 50, inclusive, Case No. 3:17-cv-00159-L-JLB, on Behalf of The Wand Law Firm, Declaration submitted on September 8, 2017; Deposition on October 5, 2017; Rebuttal Declaration submitted December 11, 2017.

United States District Court, Central District of California, Veronica Brenner, on behalf of herself and all others similarly situated, v. Procter & Gamble Co., Case No. 8:16-1093-JLS-JCG, on behalf of Bursor & Fisher, P.A., Declaration submitted September 5, 2017; Deposition on October 10, 2016.

United States District Court, Eastern District of California, Joann Martinelli, individually and on behalf of all others similarly situated, v. Johnson & Johnson And McNeil Nutritionals, LLC, Case No. 2:15-cv-01733-MCE-DB, on behalf of Bursor & Fisher, P.A., Declaration submitted August 28, 2017, Deposition on December 20, 2017; Reply Declaration submitted on January 5, 2018.

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United States District Court, Northern District of California, San Francisco Division, Martin Schneider, Sarah Deigert, Laurie Reese, Theresa Gamage, Tiffanie Zangwill, and Nadia Parikka, Individually and on Behalf of All Others Similarly Situated, v. Chipotle Mexican Grill, Inc., Case No. 3:16-cv-02200-HSG, on behalf of Kaplan Fox & Kilsheimer LLP, Declaration submitted August 11, 2017; Deposition on September 22, 2017.

United States District Court, Southern District of Ohio, Tom Kondash, on behalf of himself and all others similarly situated, v. Kia Motors America, Inc., and Kia Motors Corporation, Case No. 1:15-cv-00506-SJD, on behalf of Gibbs Law Group, LLP, Declaration submitted July 10, 2017, Deposition on November 29, 2017.

United States District Court, Northern District of Illinois, Eastern Division, Ryan Porter and Haarin Kwon, individually and on behalf of all others similarly situated, v. NBTY, Inc., United States Nutrition Inc., Healthwatchers (DE), Inc., and MET-RX Nutrition, Inc., Case No. 15-cv-11459, on behalf of Bursor & Fisher, P.A., Settlement Declaration submitted June 22, 2017; Declaration submitted on August 15, 2018; Deposition on October 12, 2018.

United States District Court, Northern District of California, Sandra McMillion, Jessica Adekoya And Ignacio Perez, on Behalf of Themselves and all Others Similarly Situated, v. Rash Curtis & Associates, Case No. 16-cv-03396-YGR, on behalf of Bursor & Fisher, P.A., Declaration submitted May 30, 2017, Declaration submitted August 25, 2017, Declaration submitted on October 16, 2017; Declaration submitted on August 10, 2018; Declaration submitted on November 6, 2018; Declaration submitted on November 12, 2018; Deposition on December 11, 2018.

United States District Court, Northern District of California, Vincent D. Mullins, et al., v. Premier Nutrition Corporation, Case No. 13-cv-01271-RS, on behalf of Blood, Hurst, & O'Reardon, LLP, Reply Declaration submitted May 19, 2017; Deposition on July 20, 2017.

United States District Court, Southern District of California, Preston Jones and Shirin Delalat, on behalf of themselves, all others similarly situated, and the general public, v. Nutiva Inc., Case No. 16-cv-00711 HSG, on behalf of Law Offices of Jack Fitzgerald, PC, Declaration submitted May 9, 2016; Deposition on August 23, 2017; Reply Declaration submitted January 12, 2018; Reply Declaration submitted March 2, 2018.

United States District Court, Central District of California, Southern Division, Billy Glenn, Kathy Warburton, Kim Fama, and Corinne Kane, on behalf of themselves and all others similarly situated, v. Hyundai Motor America And Hyundai Motor Company, Case No. 15-cv-02052-DOC-KES, on behalf of Gibbs Law Group, LLP, Declaration submitted May 1, 2017; Deposition on July 27, 2017; Reply Declaration submitted on October 2, 2017; Reply Declaration submitted on October 6, 2017; Declaration submitted on March 23, 2018.

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United States District Court, Southern District of California, Sherry Hunter, on behalf of herself, all others similarly situated, and the general public, v. Nature's Way Products, LLC, and Schwabe North America, Inc., Case No. 3:16-cv-00532-WQH-BLM, on behalf of Law offices of Jack Fitzgerald, PC, Declaration submitted March 24, 2017; Reply Declaration submitted May 26, 2017; Reply Declaration submitted on July 11, 2017.

United States District Court, Southern District Of New York, Joanne Hart, and Sandra Bueno, on behalf of themselves and all others similarly situated, v. BHH, LLC d/b/a Bell + Howell and Van Hauser LLC, Case No. 1:15-cv-04804-WHP, on behalf of Bursor & Fisher, P.A., Declaration submitted March 16, 2017; Deposition on January 10, 2018; Supplemental Declaration submitted January 30, 2018; Declaration submitted on March 2, 2018; Supplemental Declaration submitted on March 30, 2018; Supplemental Declaration submitted on November 26, 2018; Deposition on December 20, 2018.

United States District Court, Eastern District Of New York, Brooklyn Division, Reply All Corp., v. Gimlet Media, Inc., Case No. 15-cv-04950-WFK-PK, on behalf of Wolf, Greenfield & Sacks, P.C., Declaration submitted March 15, 2017; Deposition on April 26, 2017.

United States District Court, Northern District of California, James P. Brickman, individually and as a representative of all others similarly situated, v. Fitbit, Inc., Case No. 3:15-cv-02077-JD, on behalf of Dworken & Bernstein LPA, Declaration submitted February 28, 2017; Deposition on March 8, 2017.

United States District Court, Northern District of California, Jamie Pettit, an individual, on behalf of herself, the general public and those similarly situated, v. Procter & Gamble Company; and Does 1 Through 50, Case No. 15-cv-02150-RGS, on behalf of Gutride Safier LLP, Declaration submitted February 14, 2017; Deposition on March 3, 2017; Reply Declaration submitted May 11, 2017.

United States District Court, Southern District of New York, Alan Gulkis, individually and on behalf of all others similarly situated, Zicam LLC and Matrixx Initiatives, Inc., Case No. 7:15-cv-09843-CS, on behalf of Bursor & Fisher, P.A., Declaration submitted on February 8, 2017; Deposition on July 14, 2017.

United States District Court, Central District of California, Elisabeth Martin, on behalf of herself, all others similarly situated, and the general public, v. Monsanto Company, Case No. 16-02168-JFW (SPx), on behalf of the Law Office of Jack Fitzgerald, PC, Declaration submitted February 6, 2017; Deposition on February 9, 2017; Reply Declaration on February 27, 2017.

United States District Court, Southern District of New York, Walt Famular, on behalf of himself and all others similarly situated, v. Whirlpool Corporation, Case No. 16-cv-00944, on behalf of Bursor & Fisher, P.A., Declaration submitted February 3, 2017, Deposition on August 15, 2017, Rebuttal Declaration on March 20, 2018.

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United States District Court, Central District of California, *In re: 5-Hour Energy Marketing and Sales Practices Litigation*, Case No. 2:13-ml-02438 PSG, on behalf of Bursor & Fisher, P.A., Declaration submitted September 26, 2016; Reply Declaration submitted October 14, 2016; Deposition on October 27, 2016; Declaration submitted on December 22, 2016; Rebuttal Declaration submitted on March 15, 2017.

United States District Court, Southern District of Florida, *Benjamin Hankinson, James Guerra, Jeanette Gandolfo, Lisa Palmer, Donald Anderson, Catherine Long, and Lisa Prihoda, individually and on behalf of others similarly situated, v. R.T.G. Furniture Corp., d/b/a Rooms to Go, RTG America, LLC, The Jeffrey Seaman 2009 Annuity Trust, RTG Furniture Corp. of Georgia, d/b/a Rooms to Go, Rooms to Go North Carolina Corp., d/b/a Rooms to Go, RTG Furniture of Texas, L.P., d/b/a Rooms to Go, RTG Texas Holdings, Inc., and R.T.G. Furniture Corp. of Texas*, Case No. 9:15-cv-81139-COHN/SELTZER, on behalf of Cohen Milstein, Declaration submitted September 1, 2016; Declaration submitted October 3, 2016; Deposition on November 4, 2016; Declaration submitted on January 5, 2017.

Circuit Court Of Cook County, Illinois County Department, Chancery Division, *Amy Joseph, individually and on behalf of all others similarly situated, Benjamin Perez, individually and on behalf of all others similarly situated, Intervening Plaintiff, v. Monster Inc., a Delaware Corporation, and Best Buy Co., Inc., a Minnesota Corporation*, Case No. 2015 CH 13991, on behalf of Interveners, Declaration submitted August 8, 2016; Supplemental Declaration submitted January 22, 2018.

United States District Court, Central District of California, Eastern Division, *Jeff Looper, Michael Bright, Scott Johnson, individuals on behalf of themselves and all others similarly situated, v. FCA US LLC, f/k/a Chrysler Group LLC, a Delaware limited liability company, and DOES 1-100 inclusive*, Case No. 14-cv-00700-VAP-DTB, on behalf of Gibbs Law Group, LLP; Declaration submitted August 7, 2016; Deposition on September 29, 2016.

United States District Court, Eastern District of California, *Chad Herron, individually, on behalf of himself and all others similarly situation, v. Best Buy Stores, LP, a Virginia limited partnership*, Case No. 12-cv-02103-TLN-CKD, on behalf of Stonebarger Law, A Professional Corporation; Declaration submitted June 24, 2016; Deposition on July 29, 2016; Supplemental Declaration submitted September 8, 2016.

United States District Court for the Southern District of Florida, *Angela Sanchez-Knutson v. Ford Motor Company*, Case No. 14:61344-CIV DIMITROULEAS, on behalf of Kelley Uustal Trial Attorneys; Deposition on June 1, 2016.

United States District Court, Central District of California, *Jacqueline Dean, on behalf of herself and all others similarly situated, v. Colgate-Palmolive Co.*, Case No. 5:15-cv-00107, on behalf of Bursor & Fisher, P.A.; Declaration submitted April 29, 2016; Deposition on July 13, 2016; Reply Declaration submitted on May 2, 2017; Declaration submitted on October 2, 2016; Reply Declaration submitted on December 14, 2017.

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United States District Court, District of New Jersey, *In re: AZEK Decking Marketing & Sales Practices Litigation*, Case No. 12-cv-06627-MCA-MAH, on behalf of Seeger Weiss, LLP; Declaration submitted February 26, 2016; Declaration submitted May 16, 2016; Deposition on July 6, 2016; Reply Declaration submitted August 29, 2016.

United States District Court. Northern District of California, *In re: Nest Labs Litigation*, Case No. 5:14-cv-01363-BLF, on behalf of Bursor & Fisher, P.A.; Declaration submitted on January 22, 2016; Deposition on March 2, 2016; Reply Declaration submitted on June 3, 2016.

United States District Court, Northern District of California, *Rohini Kumar, an individual, on behalf of herself, the general public and those similarly situated, v. Salov North America Corp.; And Italfoods, Inc.*, Case No. 4:14-cv-02411-YGR, on behalf of Gutride Safier LLP; Declaration submitted on January 19, 2016; Deposition on February 24, 2016; Reply Declaration submitted on May 10, 2016; Declaration submitted on April 11, 2017, Declaration submitted on May 16, 2017.

United States District Court, Northern District of Ohio, Eastern Division, *Christopher Meta, On Behalf Of Himself And All Others Similarly Situated v. Target Corporation, et al.*, Case No. 4:14-0832-DCN, on behalf of Tycko & Zavareei, LLP, Declaration submitted January 6, 2016; Deposition on March 15, 2016; Reply Declaration submitted on March 18, 2016.

United States District Court, District of New Jersey, *Charlene Dzielak, Shelley Baker, Francis Angelone, Brian Maxwell, Jeffery Reid, Kari Parsons, Charles Beyer, Jonathan Cohen, Jennifer Schramm, and Aspasia Christy on behalf of themselves and all others similarly situated, v. Whirlpool Corporation, Lowe's Home Center, Sears Holdings Corporation, The Home Depot, Inc., Fry's Electronics, Inc., And Appliance Recycling Centers Of America, Inc.*, Case No. 12-cv-0089-KM-JBC, on behalf of Bursor & Fisher, P.A., Declaration submitted December 28, 2015; Deposition on April 22, 2016; Rebuttal Declaration submitted June 10, 2016; Responding Declaration submitted July 6, 2018; Rebuttal Declaration submitted on August 10, 2018.

United States District Court, District of New Jersey, *In re: Tropicana Orange Juice Marketing and Sales Practices Litigation*, Case No. 12-cv-7382-WJM-JBC, on behalf of Carella, Byrne, Cecchi, Olstein, Brody & Agnello, PC.; Declaration submitted on November 6, 2015; Deposition on January 28, 2016.

United States District Court, Northern District of California, *Scott Koller, an individual, on behalf of himself, the general public and those similarly situated v. Deoleo USA, Inc. and Med Foods, Inc.*, Case No. 3:14-cv-02400-RS, on behalf of Gutride Safier LLP; Declaration submitted on October 29, 2015; Deposition on December 21, 2015; Reply Declaration submitted on April 3, 2017.

United States District Court, Eastern District Of New York, *Patrick Hughes and Nafisé Nina Hodjat, individually and on behalf of others similarly situated, v. The Ester C Company; NBTY, Inc.; and Naturesmart, LLC*, Case No. 12-cv-00041-JFB-ETB, on behalf of Reese LLP and WhatleyKallas LLP; Declaration submitted October 22, 2015; Deposition on December 1, 2015; Reply Declaration submitted on January 28, 2016; Surrebuttal Declaration submitted on April 20, 2016; oral testimony and cross examination on September 20, 2016.

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United States District Court, District Of Connecticut, Glen Grayson, and Doreen Mazzanti, individually and on behalf of themselves and all others similarly situated, v. General Electric Company, Case No. 3:13-cv-01799-WWE, on behalf of IZARD Nobel LLP; Declaration submitted October 15, 2015; Deposition on November 17, 2015; Rebuttal Declaration submitted March 23, 2016.

United States District Court, District of New Jersey, Lynne Avram, on behalf of herself and all others similarly situated, v. Samsung Electronics America Inc., and Lowe's Home Centers, Inc., Case No. 11-cv-6973-KM-MCA, on behalf of Faruqi & Faruqi LLP; Declaration filed July 15, 2015; Deposition September 29, 2015.

United States District Court, District of Connecticut, Heidi Langan, on behalf of herself and all others similarly situated, v. Johnson & Johnson Consumer Companies, Inc., Case No. 3:13-cv-01471-RNC, on behalf of IZARD Nobel LLP; Declaration filed June 23, 2015; Deposition on July 21, 2015; Reply Declaration filed October 15, 2015.

United States District Court, Eastern District of California, Yesenia Melgar, on behalf of herself and all others similarly situated, v. Zicam LLC, and Matrixx Initiatives, Inc., Case No. 2:14-cv-00160-MCE-AC, on behalf of Bursor & Fisher, PA; Declaration filed June 8, 2015.

United States District Court, Central District of California, Eastern Division-Riverside Michael J. Otto, individually, and on behalf of other members of the general public similarly situated, v. Abbott Laboratories, Inc., Case No. 12-01411-SVW(DTBx), on behalf of Baron & Budd; Declaration filed May 25, 2015; Deposition on June 2, 2015; Supplemental Declaration filed July 6, 2015.

United States District Court, Central District of California, Russell Minoru Ono, individually and on behalf of others similarly situated, v. Head Racquet Sports USA, a corp. and Head USA Inc., Case No. 13-04222-FMO, on behalf of Baron & Budd; Declaration filed April 24, 2015, Deposition on June 30, 2015; Reply Declaration filed July 2, 2015.

United States District Court, Southern District of Florida, Vanessa Lombardo, on behalf of herself and all others similarly situated, v. Johnson & Johnson Consumer Companies and Neutrogena Corporation, Case No. 13-60536-SCOLA, on behalf of Morgan & Morgan; Declaration filed March 31, 2015.

United States District Court, Eastern District of New York, D. Joseph Kurtz, individually and on behalf all others similarly situated, v. Kimberly-Clark Corporation and Costco Corporation, Case No. 14-01142-JBW, on behalf of Robbins Geller Rudman & Dowd LLP; Declaration filed February 27, 2015; Rebuttal Declaration filed March 27, 2015.

United States District Court, Eastern District of New York, Anthony Belfiore, on behalf of himself and all others similarly situated, v. Procter & Gamble, Case No. 14-04090-JBR, on behalf of Wolf Popper LLP; Declaration filed February 27, 2015; Rebuttal Declaration filed April 30, 2015.

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United States District Court, Northern District of California, Patrick Hendricks, individually and on behalf of all others similarly situated, v. StarKist Co., Case No. 13-0729-YGR, on behalf of Bursor & Fisher, PA; Declaration filed January 20, 2015; Deposition on February 10, 2015; Reply Declaration filed April 7, 2015.

United States District Court, Northern District of California, San Francisco Division, Scott Miller and Steve Leyton, individually and on behalf themselves, the general public and those similarly situated v. Ghirardelli Chocolate Company, Case No. 12-04936-LB, on behalf of Gutride Safier LLP, Declaration filed January 8, 2015; Reply Declaration filed February 5, 2015.

United States Bankruptcy Court, Eastern District of New York, In re: Kangadis Food Inc., d/b/a The Gourmet Factory, Debtor, Case No. 14-72649-REG, on behalf of Bursor & Fisher, PA; Declaration filed August 5th, 2014; Oral testimony on November 24, 2014.

United States District Court, Southern District of New York, Joseph Ebin and Yeruchum Jenkins, individually and on behalf of all others similarly situated v. Kangadis Family Management LLC, Aristidia Kangadis a/k/a "Mr. Aris," Andromahi Kangadis a/k/a "Mrs. Mahi," and Themis Kangadis, Case No. 14-cv-1324-JSR, on behalf of Bursor & Fisher, PA; Declaration filed August 5, 2014; Deposition on October 9, 2014.

United States District Court, Northern District of California, San Francisco Division, Erin Allen, on behalf of herself and all others similarly situated, v. Con Agra Foods, Inc., Case No. 13-cv-01279-VC, on behalf of Hagens Berman Sobol Shapiro LLP and The Eureka Law Firm; Declaration submitted August 11, 2014; Deposition on September 30, 2014; Declaration submitted July 9, 2018.

United States District Court, Eastern District of California, Kyle Dei Rossi and Mark Linthicum, on behalf of themselves and those similarly situated, v. Whirlpool Corporation, Case No. 12-cv-00125-TLN-CKD, on behalf of Bursor & Fisher, P.A.; Declaration filed July 31, 2014, Deposition on August 20, 2014.

United States District Court, Northern District of Illinois, Eastern Division, In re: Southwest Airlines Voucher Litigation., Case No. 11-cv-8176, Hon. Matthew Kennelly, on behalf of Siprut PC; Declaration filed June 4, 2014; Oral testimony and cross examination on June 16, 2014.

United States District Court, Central District of California, Western Division, In re: ConAgra Foods, Inc., Case No. 11-cv-05379-MMM, MDL No. 2291, on behalf of Milberg LLP and Grant & Eisenhofer, P.A.; Declaration filed May 5, 2014; Deposition on May 23, 2014; Declaration filed June 30, 2014; Declaration filed September 8, 2014; Deposition on September 16, 2014, Declaration filed October 27, 2014.

United States District Court, Southern District of New York, In re: Scotts EZ Seed Litigation, Case No. 12-cv-4727-VB, on behalf of Bursor & Fisher, PA; Declaration filed March 31, 2014; Deposition on May 21, 2014; Declaration filed on January 8, 2016; Deposition on February 10, 2016; Reply Declaration submitted June 30, 2016; Declaration submitted September 1, 2016; Declaration submitted on October 20, 2016.

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United States District Court, Central District of California, *Julie Fagan, Michael Fagan, Melissa Pennalatore, Amy Sapeika and Shelley Trinchero, individually and on behalf of all others similarly situated v. Neutrogena Corporation*, Case No. 13-cv-01316-SVW, on behalf of IZARD Nobel LLP; Declaration filed March 21, 2014; Deposition on April 3, 2014; Supplemental Declaration filed August 4, 2014; Deposition on August 13, 2014; Declaration filed September 9, 2014.

United States District Court, Central District of California, *Enzo Forcellati and Lisa Roemmich, individually and on behalf of all others similarly situated v. Hyland's Inc., Standard Homeopathic Laboratories, Inc. and Standard Homeopathic Company*, Case No. 12-cv-01983-GHK, on behalf of Faruqi and Faruqi; Declaration filed December 13, 2013; Deposition on February 27, 2014.

United States District Court, Southern District of Florida, *Adam Karhu, on behalf of himself and all others similarly situated, v. Vital Pharmaceuticals, Inc., d/b/a VPX Sports*, Case No. 13-cv-60768-JIC, on behalf of Thornton, Davis, & Fein, P.A., Declaration filed December 13, 2013; Declaration filed January 6, 2014; Declaration filed March 31, 2014.

Trial Court of Massachusetts, District of Edgartown, *Schepici v. JetBlue Airways Corp.*, on behalf of plaintiff; Mediation on December 4, 2013.

Superior Court of California, County of Alameda, *In re: Cellphone Termination Fee Cases, Ramzy Ayyad, et al, v. Sprint Spectrum, L.P.*, JCCP No. 4332, Case No. RG03-121510, on behalf of the Executive Committee; Declaration filed September 18, 2013.

United States District Court, Northern District of California, *Maria Torres, Gabriel Rojas, and Ian Kerner, individually and on behalf of all others similarly situated v. JC Penney Corporation, Inc.; and JC Penney Company, Inc.*, Case No. cv-12-01105-RS, on behalf of Bramson, Plutzik, Mahler and Birkhaeuser; Declaration filed September 13, 2013; Deposition on October 2, 2013.

United States District Court, Southern District of New York, *Joseph Ebin and Yeruchum Jenkins, individually and on behalf of all others similarly situated v. Kangadis Foods Inc.*, Case No. 13-cv-02311-JSR, on behalf of Bursor & Fisher, PA; Declaration filed August 26, 2013; Deposition on October 21, 2013.

United States District Court, Northern District of California, *Desiree Moore, on behalf of themselves, the general public, and all those similarly situated, v. Verizon Communications*, Case No. 4:09-cv-01823-SBA, on behalf of David Schachman and Associates PC, Jacobs Kolton Chtd., and Keller Grover, LLP; Declaration filed June 24, 2013.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on March 1, 2013.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on February 20, 2013.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on February 19, 2013.

Statement of Qualifications – Colin B. Weir

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on February 13, 2013.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on February 7, 2013.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on February 4, 2013.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on January 24, 2013.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on December 12, 2012.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on December 10, 2012.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant; Oral testimony and cross examination on November 28, 2012.

American Arbitration Association, *[Redacted for public inspection]*, on behalf of Claimant, Declarations filed October 4, 2012 and November 5, 2012; Oral testimony and cross examination on November 27, 2012.

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United States District Court, Southern District of New York, *Bursor & Fisher P.A., v. Federal Communications Commission*, Case No. 1:11-cv-05457-LAK, on behalf of Bursor & Fisher P.A., Declaration filed August 17, 2011.

United States District Court, District of New Jersey, *In Re: Sprint Premium Data Plan Marketing and Sales Practices Litigation*, Master Case No. 10-6334 (SDW) MDL No. 2228, on behalf of Thornton, Davis, & Fein, P.A., Declaration filed August 11, 2011.

United States District Court, Northern District of California, *Patrick Hendricks, on behalf of himself and all others similarly situated, v. AT&T Mobility LLC*, Case No. C11-00409, on behalf of Bursor & Fisher, P.A., Declaration filed August 7, 2011.

Federal Communications Commission, *In the Matter of Applications of AT&T Inc. & Deutsche Telekom AG for Consent to Assign or Transfer Control of Licenses and Authorizations*, WT Docket No. 11-65, on behalf of Butch Watson, Declaration filed June 20, 2011.

Statement of Qualifications – Colin B. Weir

California Public Utilities Commission, *Pacific Bell Telephone Company d/b/a AT&T California (U1001C) Complainant, vs. O1 Communication, Inc. (U 6065 C), Defendant*, Case No. C.08-03-001, on behalf of the O1 Communications, Inc., Reply Testimony filed November 6, 2009; Oral testimony and cross examination on November 16, 2009.

Superior Court of California, County of Alameda, *James Thomas, on behalf of themselves, the general public, and all those similarly situated, v. Global Vision Products, Inc., Anthony Imbriolo, Derrike Cope, David L. Gordon, Powertel Technologies, Inc., Craig Dix, Henry Edelson and Robert Debenedictis*, Case No. RG03-091195, on behalf of the Law Offices Of Scott A. Bursor, Oral testimony and cross examination on November 9, 2009.

United States District Court, District of New Jersey, *Judy Larson, Barry Hall, Joe Milliron, Tessie Robb, and Willie Davis, individually and on behalf of all others similarly situated, v. AT&T Mobility LLC f/k/a Cingular Wireless LLC and Sprint Nextel Corporation and Sprint Spectrum L.P. d/b/a Sprint Nextel and Nextel Finance Company, Civ. Act. No. 07-5325 (JLL)*, on behalf of PinilisHalpern, LLP and Law Offices of Scott A. Bursor, Declaration filed *under seal* October 19, 2009.

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Illinois Commerce Commission, *Illinois Bell Telephone Company Annual Rate Filing for Non-Competitive Services Under an Alternative Form of Regulation*, Ill. C. C. Docket No. 08-0249, on behalf of the People of the State of Illinois, Declaration filed May 2, 2008.

Federal Communications Commission, *Qwest Petition for Forbearance Under 47 U.S.C. §160(c) From Title II and Computer Inquiry Rules with Respect to Broadband Services*, Petition of AT&T Inc, For Forbearance Under 47 U.S.C. §160(c) From Title II and *Computer Inquiry Rules* with Respect to Broadband Services, Petition of BellSouth Corporation For Forbearance Under 47 U.S.C. §160(c) From Title II and *Computer Inquiry Rules* with Respect to Broadband Services, Petition of the Embarq Local Operating Companies for Forbearance Under 47 U.S.C. §160(c) From Application of *Computer Inquiry* and certain Title II Common Carriage Requirements; WC Docket Nos. 06-125 and 06-147, on behalf of the AdHoc Telecommunications Users Committee, Declaration filed October 9, 2007.

Superior Court of California, County of Alameda, *James Thomas, on behalf of themselves, the general public, and all those similarly situated, v. Global Vision Products, Inc., Anthony Imbriolo, Derrike Cope, David L. Gordon, Powertel Technologies, Inc., Craig Dix, Henry Edelson and Robert Debenedictis*, Case No. RG03-091195, on behalf of the Law Offices Of Scott A. Bursor, Declaration filed January 5, 2007; Deposition on November 13, 2007; Oral testimony and cross-examination on December 19, 2007; Oral testimony on January 9, 2008.

Mr. Weir has served as a consultative expert in numerous proceedings that did not result in testimony, and has contributed research and analysis to numerous additional publications and testimony at the state, federal, and international levels.

Exhibit 2

Documents Reviewed

- Class Action Complaint, filed December 4, 2017
- 47 U.S. Code 227
- November 27, 2018 Declaration of Randall Snyder
- January 11, 2019 Report of Margaret Daley (and associated exhibits and workpapers)
- January 24, 2019 Deposition of Margaret Daley
- December 28, 2018 Deposition of Colin B. Weir
- December 23, 2018 Deposition of Randall Snyder
- Defendant's call detail records
- Defendant's wrong number account data
- <http://www.stata.com/products/>
- *In re: Cellphone Termination Fee Cases, Ayyad, et al., v. Sprint Spectrum, L.P.*, JCCP No. 4332, Case No. RG03-121510
- *In re: ConAgra Foods Inc.*, 90 F. Supp. 3d 919, (C.D. Cal. February 23, 2015)

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(<http://app.e.transunion.com/e/er?s=1834359157&lid=1295&elq=recipientid>)



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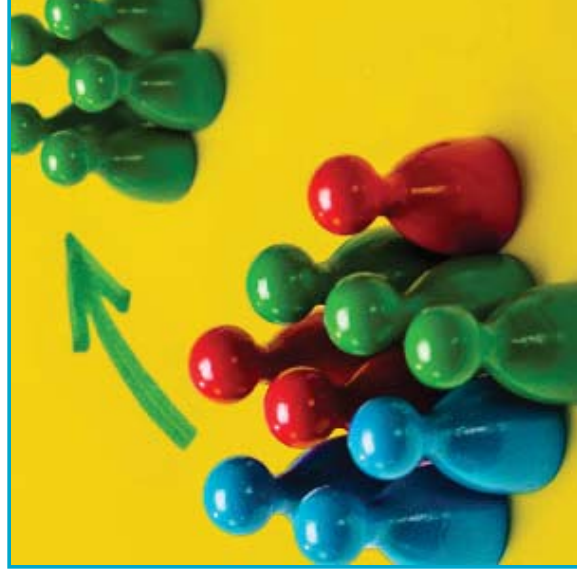


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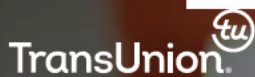
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Powerful technology and data to help improve your TCPA compliance and contact strategy

TransUnion helps make compliance with the Telephone Consumer Protection Act (TCPA) and verification of your contact data easier.

With real-time* access to carrier data, your organization can quickly confirm the line type and verify ownership of a given phone number.

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Through more accurate information and solutions that help you better navigate evolving phone technologies, you can also enhance your customer contact strategy and mitigate costly fines resulting from non-compliance.

Our batch solutions can simplify your compliance efforts while helping streamline your operational workflow. What's more, Batch Monitoring allows for daily updates to track status changes, including whether a number has been ported to a major carrier, helping you avoid regulatory violations. Available carriers include Verizon, T-Mobile, Sprint and AT&T**.

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- Verify number ownership of the consenting party
- Track ported numbers
- Validate phone type
- Improve the accuracy of customer contact details

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Access the right data to drive better results with intuitive TCPA and contact data solutions.

TCPA Phone Verification

This product provides verification of phone ownership details direct from carrier billing data.

INPUTS

- Correlation ID: *An identifier for each record in the file, and returned in the output*
- Phone number
- First and last name
- Address
- Email address
- Last successful contact date

OUTPUTS

- Correlation ID
- Service type: *Wireless, landline*
- Account status:
 - 10 = *Active*
 - 9 = *Suspended*
 - 0 = *Cancelled*
- Verification score: *Probability of phone ownership by provided name*

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Contact Data Verification

This product delivers additional information about the ownership of a phone number to our customers looking to verify their customer data.

INPUTS

- Correlation ID: *An identifier for each record in the file, and returned in the output*
- Phone number
- First and last name
- Address
- Email address
- Last successful contact date

OUTPUTS

- First and last name score
- Address score
- Email address score
- Service type & provider: *Wireless, landline*
- Account type: *Pre-paid or post-paid*
- Account status: *Active, suspended, cancelled*
- Primary owner verification
- Last reassignment date
- Verification score: *Probability of provided name owning phone*

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** Subject to change

1: United States Code, 2006 Edition, Supplement 5, Title 47 - TELEGRAPHS, TELEPHONES, AND RADIOTELEGRAPHS (47 U.S.C. § 227) (2018)

2: See Id

SOLUTION

TCPA Phone and Contact Data Verification

Improve your TCPA compliance and contact strategy with powerful technology and data

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Effectively verifying contact data and remaining compliant with the Telephone Consumer Protection Act (TCPA) is vital to mitigating costly fines that can severely impact your business and reputation. To optimize your customer contact strategies, TransUnion offers real-time access to carrier data allowing you to quickly confirm the line type and ownership of a given phone number.

Implementing our batch monitoring solutions can streamline your compliance efforts and overall operational flow. Plus, you can receive daily updates that allow you to track status changes like whether a number has been ported to a major carrier – again helping you avoid regulatory violations.

TCPA Phone Verification provides verification of phone ownership details direct from carrier billing data.

Using inputs, such as correlation ID, phone number, first and last names, etc., you can receive information as to service type, wireless or landline, account status and a verification score with the probability of ownership by the name provided.

Contact Data Verification delivers deeper information regarding ownership of a phone number.

Again, with the inputs you provide, you can receive detailed information regarding name, address, service type, provider, pre or post-paid account, account status, verification score of probability of ownership and more.

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- ✔ Reduce and limit calls to canceled or suspended numbers
- ✔ Verify number ownership of the consenting party
- ✔ Track ported numbers

phone type

Improve the accuracy of customer contact details

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